

# Western States Contracting Alliance

## Current Contract Information



Revision Date: September 19, 2013  
Effective Date: See below

**Contract number:** 02702 **Commodity code:** 5820  
**Contract title:** WSCA Public Safety Communication Equipment and Services

**Purpose:** Update contract to address the following changes:

- **One-Year Contract Extension:** This contract has been extended for one year (October 30, 2013 through October 29, 2014) with all sixteen vendors.
- **Vendor Name Change:** On August 21, 2012, Daniels Electronics Ltd began doing business as Codan Radio Communications.
- **Updated Alcatel-Lucent USA Contractor Information page** and add authorized Illinois reseller to the contract.
- **Updated Harris RFCD Contractor Information page** for contact people etc., and provided an embedded document listing contract products and discounts.
- **Updated Raytheon Contractor Information page** for new contact person. Reference Contractor's Information pages for detail.
- **Update Vertex Standard USA authorized dealer list** for Delaware.

See below for additional information on recent and previous contract updates.

**Original award date:** October 30, 2003

**Current extension period:** October 30, 2011 through October 29, 2013 then October 30, 2013 through October 29, 2014.

**Contract type:** This contract has been designated as convenience use for Washington State Agencies.

**Scope of contract** Contract awarded to multiple contractor(s).

**Scope of contract** Notice to Washington State Agencies subject to the policies of the Washington State Information Services Board under Chapter 43.105 RCW, your purchase may require prior approval from the Department of Information Services (DIS) and the Information Services Board (ISB).

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**Primary user agency(ies):** Western States Contracting Alliance (WSCA) - States and local agencies.  
**For use by:** General use: All State Agencies, Political Subdivisions of: Alaska, Arizona, Arkansas, California, Colorado, Florida, Hawaii, Idaho, Iowa, Kansas, Maine, Mississippi, Missouri, Montana, New Jersey Transit Corp., New Hampshire, Nevada, Oregon, Oklahoma, Rhode Island, South Dakota, Utah, Washington, Wisconsin, Wyoming and Washington State Qualified Non-profit Corporations, Participating Institutions of Higher Education (College and Universities, Community and Technical Colleges).  
**Term worth:** \$121,786,000/1-year extension  
**Current participation:** \$0 MBE            \$0 WBE            \$121,786,000 OTHER            \$0 EXEMPT  
MBE 0%            WBE 0%            OTHER 0%            EXEMPT 0%  
**Current participation:** Contract vendors are providing sub-contractors who are qualified WBE's.  
**Recovered material:** Contact contractor's for returning recoverable materials at the end of the equipment life cycle.

This page contains key contract features. Find detailed information on succeeding pages. For more information on this contract, or if you have any questions, please contact your local agency Purchasing Office, or you may contact our office at the numbers listed below.

Contracts Specialist:	Robert Paulson, Jr., C.P.M.	Customer Service:	
Phone Number:	(360) 407-9430	Phone Number:	(360) 902-7400
Fax Number:	(360) 586-2426	Fax Number:	(360) 586-2426
Email:	<a href="mailto:robert.paulson@des.wa.gov">robert.paulson@des.wa.gov</a>		

Visit our Internet site: <https://fortress.wa.gov/ga/apps/ContractSearch/ContractSummary.aspx?c=02702>

### Recent Contract Changes:

- One-Year Contract Extension:** Effective October 30, 2013, all sixteen vendors agreed "to extend Contract 02702 for WSCA Public Safety Communications Equipment and Services for one additional year (October 30, 2013 through October 29, 2014), under the existing contract terms, conditions, specifications and pricing. This extension will allow additional time to complete the rebid of a replacement contract and should a WSCA-NASPO replacement contract be awarded and become effective for products and/or services available through this contract prior to October 29, 2014, both contracts may run concurrently to allow time for participating entity customer transition to the new contract."

Extending vendors include - Motorola Solutions, Inc., Raytheon/JPS, Kenwood USA Corporation, Aviat US, Inc., Alcatel-Lucent USA Inc., Tait North America, Inc., EF Johnson Company, Icom America, Inc., Aeroflex Wichita, Inc., Daniels Electronics Ltd., Valmont Industries, Relm Wireless Corporation, Raytheon JPS Communications, Harris RFCD, Sinclair Technologies and Vertex Standard USA.

Participating Addendum Extensions: Vendors should be aware that states or other purchasers (i.e. Participating Entities) who have executed a Participating Addendum (PA) for this master contract may find it necessary to complete an extension of the PA so that it also continues to be in effect until October 29, 2014, or as otherwise stated in the extension agreement.

2. **Name Change for Daniels Electronics:** On August 21, 2012, Codan Ltd. acquired Daniels Electronics Ltd. For legal, regulatory, financial and contract activities the company will be referred to as “Daniels Electronics Ltd dba Codan Radio Communications.” Reference Contractor Information page.
3. **Updated Alcatel-Lucent USA** Contractor Information page to add new alternate contact person and to add authorized Illinois reseller to the contract. Reference Contractor’s Information pages for retail.
4. **Updated Harris RFCD** Contractor Information page for contact people etc., and provided an embedded document listing contract products and showing that contract pricing remains at the 26% discount level off manufacturer’s price list.
5. **Updated Raytheon** Contractor Information page for new contact person. Reference Contractor’s Information pages for detail.
6. **Update Vertex Standard USA** authorized dealer list for Delaware effective September 4, 2013, (reference Contractor Information section).

**Previous Contract Changes** (Shown in 6/30/13 contract update):

1. **EF Johnson Company:** Updated Contractor Information page to change name of alternate contact person. Add the new Viking Series Multi-Band VP-900 portable radio to the contract at the existing WSCA price discount percentage and identify sample configurations in their associated frequency band.

**Previous Contract Changes** (Shown in 5/28/13 contract update):

1. **Radio Frequency Systems Dealer Update:** Effective January 8, 2013, Radio Frequency updated contact information for Hutton Communications, one of its authorized dealers. Reference Contractor’s Information pages.
2. **Update Alcatel-Lucent USA, Inc. Contractor Information:** Reference Contractor Information page for the name and contact information for the new Alternate Contact person.
3. **Update Raytheon JPS Communications Product List:** Effective 2/6/13 an old router was deleted and a new router and Ethernet SW rack were added to the contract. Effective June 1, 2013, contract prices were updated to reflect an increase in manufacturer’s price list. A five percent discount was maintained. Contractor Information page was also updated.
4. **Update Vertex Standard USA Contractor Information:** Reference Contractor Information page for the name and contact information for the new Alternate Contact person. Additionally, Effective February 2013, Vertex Standard updated its authorized dealer list for Arizona (reference Contractor Information section).
5. **Update Kenwood Dealer List:** Effective January 11, 2013, Kenwood updated its authorized dealer list. (Reference Contractor Information section).
6. **Participating Addendum for State of Nebraska:** On March 12, 2013, WSCA acknowledged the execution of a Participating Addendum between the State of Nebraska (and its political subdivisions) and Motorola Solutions.
7. **EF Johnson Company:** Updated Contractor Information page for Alternate Contact and updated list of authorized dealers March 2013.

8. **Vertex Standard:** Updated Contractor Information pages to list new Payment Address and identify new West Regional Sales Manager.

**Previous Contract Changes** (Shown in 12/28/12 contract update):

1. **Change in Motorola's Pricing Discount Table:** Effective January 1, 2013, the following changes were made to Motorola's WSCA Discount Matrix table:
  1. MTR3000 Base/Repeater Station replaced MTR2000 at the same level of discount.
  2. Discounts for the following products were increased:
    - P25 DIGITAL, MOBILE/DESKTOP/CONSOLETTES RADIOS - APX4500 Mobile/Consolette, XTL2500 Mobile, and XTL1500 Mobile.
    - P25 DIGITAL, PORTABLE RADIOS - APX4000 Portables.
    - INFRASTRUCTURE / FIXED EQUIPMENT / OTHER - Minitor Receivers.
  3. For MOTOROLA – WSCA DISCOUNT MATRIX table, the use of the second and third discount columns (which previously showed a lower price discounts for the states of: Oregon, Colorado, Utah, Oklahoma, Kansas and New Mexico) was discontinued and all customer orders regardless of customer's location will use the single price discount column shown.
2. **Tait North America:** Effective December 19, 2012, the new P25 9400 Series portable and mobile radios was added to the contract at same level of price discount as other contract products. The company's alternate contact person also was updated.
3. **Harris RFCD Updated Dealer List:** Harris has updated its authorized list of dealers as of December 2012. Reference Contractor's Information page.

**Previous Contract Changes** (Shown in 10/01/12 contract update):

1. **Icom America, Inc.** Pricing of line item 483 was corrected on Icom's September 1, 2012 price list and WSCA pricing sheet. Reference Contractor's Information page for updated price list.
2. **EF Johnson Company:** Updated Contractor Information page; updated list of authorized dealers; added quick reference pricing matrix; added sample radio configurations; deleted discontinued models and added new models; after 9 years without a price adjustment labor rates were increased from \$125/hour to \$175.00/hour for support, installation and repair services, and revised net pricing to reflect list price changes.

**Previous Contract Changes** (Shown in 8/29/12 contract update):

1. **Icom America, Inc.** Effective September 1, 2012 list and WSCA pricing will change with some price increases and some price decreases to pass through price changes from their equipment manufacturer and to correct previous pricing errors. Percentage discounts off list pricing will be retained and for some items, the net WSCA price will be corrected. Additionally, an updated list of authorized dealers has been included (reference Contractor Information section).
2. **Participating Addendum for State of California:** On August 9, 2012, WSCA acknowledged the execution of a Participating Addendum between the State of California (on behalf of all State Agencies and will

include all California political subdivisions/local governments) for the purchase of 800MHz Portable and Mobile Radios & Associated Accessories, and Motorola Solutions, Inc.

3. **Aeroflex Wichita, Inc.** replaced its 3500A radio test set with a new 3550 radio test set which meets contract specifications, contract pricing discounts have been maintained and price lists were updated effective September 2012. Additionally, pricing for its 3920 radio test set has been updated effective September 2012 and contract discounts were maintained. Reference embedded price lists in Contractor Information section.
4. **Alcatel-Lucent USA, Inc.** adjusted its pricing for microwave radio services effective August 29, 2012. Reference embedded price lists for ALU Services in Contractor Information section.

**Previous Contract Changes** (Shown in 7/16/12 contract update):

1. **Update Harris RFCD Contractor Information and add Unity® XG-100P portable radio:** (reference Contractor Information section). Additionally, effective May 16, 2012 the Unity® XG-100P portable radio was added to the contract at existing WSCA pricing discount.
2. **Update Vertex Standard Authorized Dealer List:** Effective May 25 2012, Vertex Standard updated its Colorado and Florida authorized dealer lists (reference Contractor Information section).
3. **Update Aviat Networks, Inc. Authorized Reseller List:** Aviat has updated its authorized national reseller (reference Contractor Information section).
4. **Update Icom America Contractor Information page,** added new distributor and updated its authorized distributor list.
5. **Update Radio Frequency Systems Contractor Information and Add Authorized Dealer:** Effective May 1, 2012, Radio Frequency updated its Contractor Information page and added a new authorized dealer (Infinity Technology Distributors and Consulting Services, LLC Inc.) (reference Contractor Information section).
6. **Update Raytheon/JPS Contractor Information page and Product List** to add new Gateway system to the contract.
7. **Participating Addendum for State of Delaware:** On May 31, 2012, WSCA acknowledged the execution of a Participating Addendum between the State of Delaware (and other and Motorola Solutions, Inc.

**Previous Contract Changes** (Shown in 3/2/12 contract update):

1. **Update Vertex Standard Contractor Information:** (reference Contractor Information section).
2. **Update Icom America Authorized Dealer List:** Effective December 2011, Icom America updated its authorized dealer list (reference Contractor Information section).
3. **Updated Alcatel-Lucent USA, Inc. Contractor Information, Product Catalog and Catalog Prices:** Reference Contractor Information page and imbedded pdf documents for product and price catalogs.
4. **Participating Addendum for State of Missouri Political Subdivisions:** On November 28, 2011, WSCA acknowledged the execution of a Participating Addendum between the State of Missouri on behalf of its political subdivisions – any public entity having authority to levy taxes (e.g. cities, counties, school districts, etc.) and Kenwood USA Corp.

**Previous Contract Changes** (Shown in 10/28/11 contract update):

1. **Contract Extension with Radio Frequency Systems, Inc.:** Effective October 30, 2013, Radio Frequency has agreed to extend Contract 02702 for WSCA Public Safety Communications Equipment and Services for two additional years (October 30, 2011 through October 29, 2013), under the existing contract terms, conditions, specifications with updated product and pricing. Price increases occurred on some items due to the introduction of

improved versions, the replacement of obsolete models with high performance units, and the increased cost of metals used in the manufacturing process. The vendor's "Contractor Information" page also was updated. Additionally, should a new WSCA replacement contract be awarded and become effective for products and/or services available through this contract prior to October 29, 2013, both contracts may run concurrently to allow time for customer transition to the new contract.

- 2. Delete Non-Extending Vendor Information:** Vendor, product and pricing information has been deleted from the following vendors who were not included in the two-year extension of this contract: General Dynamics Decision Systems; Eltek Valere, Inc.; Communications-Applied Technology; Ceragon Networks; GE MDS, LLC; Northern Airborne Technology, Ltd.; and CalAmp Dataradio, Inc.,
- 3. New Gateway Server from Raytheon Added to Contract:** Effective October 28, 2011, the new ACU-5000 Next Generation IP Based Interoperability Server from Raytheon/JPS was added to the contract. Reference Contractor Information for product and pricing information.
- 4. Participating Addendum for State of Montana:** On October 3, 2011, WSCA acknowledged the execution of a Participating Addendum between the State of Montana (including all governmental entities within the State of Montana and all registered Cooperative Purchasing Organizations) and Motorola, Inc.
- 5. Participating Addendums for State of Missouri Political Subdivisions:** On October 25, 2011, WSCA acknowledged the execution of a Participating Addendums between the State of Missouri on behalf of its political subdivisions – any public entity having authority to levy taxes (e.g. cities, counties, school districts, etc.) and Valmont Industries; Sinclair Technologies, Inc.; Relm Wireless Corporation; Daniels Electronics, Ltd.; Aviat US, Inc.; Alcatel-Lucent USA Inc.; and Aeroflex Wichita, Inc.

#### **Previous Contract Changes (Shown in 9/01/11 contract update):**

- 1. Two- Year Contract Extension:** Effective October 30, 2013, the following fifteen vendors (who collectively represent 99.6% of contract sales) have agreed "to extend Contract 02702 for WSCA Public Safety Communications Equipment and Services for two additional years (October 30, 2011 through October 29, 2013), under the existing contract terms, conditions, specifications and pricing. However, should a new WSCA replacement contract be awarded and become effective for products and/or services available through this contract prior to October 29, 2013, both contracts may run concurrently to allow time for customer transition to the new contract."  
Motorola Solutions, Inc., Kenwood USA Corporation, Aviat US, Inc., Alcatel-Lucent USA Inc., Tait North America, Inc., EF Johnson Company, Icom America, Inc., Aeroflex Wichita, Inc., Daniels Electronics Ltd., Valmont Industries, Relm Wireless Corporation, Raytheon JPS Communications, Harris RFCD, Sinclair Technologies and Vertex Standard USA. Radio Frequency Systems has not agreed to contract extension at this time.
- 2. Vendors Not Included in Extension:** Effective October 30, 2011, the following seven vendors (who each represented less than 1/10 of one percent and collectively represented less than 0.04% of contract sales) will not be included in the contract extension:  
General Dynamics Decision Systems, Communications-Applied Technology, GE MDS, LLC, CalAmp Dataradio, Inc., Eltek Valere, Inc., Ceragon Networks, and Northern Airborne Technology, Ltd.
- 3. Participating Addendum for Chisago County, Minnesota:** On July 6, 2011, WSCA acknowledged the execution of a Participating Addendum between the Chisago County, Minnesota and Harris Corp.
- 4. Update Tait North America, Inc. Contractor Information:** (reference Contractor Information section).
- 5. Update Harris RFCD Contractor Information:** (reference Contractor Information section).
- 6. Update Icom America Authorized Dealer List:** Effective August 2011, Icom America updated its authorized dealer list (reference Contractor Information section) to include - C & R Radio, California, Contact: Carrol Campbell, Phone: (530) 934-2240, Fax: (530) 934-2206, E-mail: [erradio@att.net](mailto:erradio@att.net)
- 7. Update Vertex Standard Authorized Dealer List:** Effective July 2011, Vertex Standard updated its authorized California dealer list (reference Contractor Information section).

- 8. Update Kenwood WSCA Dealer List:** Effective August 2011, Kenwood USA Corporation updated its WSCA dealers list (reference Contractor Information section).

**Previous Contract Changes** (Shown in 7/14/11 contract update):

- 1. Update Icom America Authorized Dealer List:** Effective March 2011, Icom America updated its authorized dealer list (reference Contractor Information section).
- 2. Update Icom America Inc. Contractor Information:** (reference Contractor Information section).
- 3. Update Harris RFCD Contractor Information:** (reference Contractor Information section).
- 4. Add New Distributor for Radio Frequency Systems, Inc.:** Talley, Inc. was added as a new distributor for Radio Frequency Systems. (reference Contractor Information section).
- 5. Participating Addendum for State of Colorado:** On January 4, 2011, WSCA acknowledged the execution of a Participating Addendum between the State of Colorado (including other entities located within the state) and Motorola, Inc.
- 6. Updated Icom America's Product and Price List:** Effective June 22, 2011 Icom America, Inc. updated its catalog of contract products by deleting old products, adding new products, increasing the price of some products by an average 6.0% and decreasing the price of some products by an average 11.5%.

**Previous Contract Changes** (Shown in 2/28/11 contract update):

- 1. Participating Addendums for State of Montana:** WSCA acknowledged the execution of a Participating Addendum between the State of Montana (including all governmental entities and registered Cooperative Purchasing Organizations) and EF Johnson Company; and Kenwood USA Corporation; and RELM Wireless Corporation.
- 2. Participating Addendums for State of Wisconsin:** On January 12, 2011, WSCA acknowledged the execution of a Participating Addendum between the State of Wisconsin (including any State Agency, including the University System, Court System, Legislature, or municipality) and Harris RFCD.
- 3. Participating Addendum for State of Utah:** On January 21, 2011, WSCA acknowledged the execution of a Participating Addendum between the State of Utah (including political subdivisions, i.e. colleges, school districts, counties, cities, etc.) and Motorola, Inc.
- 4. Add New Vertex Standard Radios and Update Dealer List:** Effective 2/28/11 – date of last signature, Vertex Standard USA has added VX-450 portable radios and VX-4500/4600 mobile radios at the current 28% level of price discount off Manufacturer's Standard Retail Price to this contract. Vertex Standard has also updated its dealer list to remove non-direct dealers and to add dealers for Iowa, South Dakota, Missouri and Wisconsin. Reference updated product and price list embedded within Contractor Information.
- 5. Name Change for Motorola:** On January 4, 2011, Motorola, Inc. completed its planned separation into two separate independent companies – Motorola Mobility, Inc. and Motorola Solutions, Inc. Motorola Solutions, Inc. shall assume all rights, obligations and liabilities from Motorola, Inc. and shall be responsible for obligations and liabilities for all past performance (whether known or unknown) and future performance of WSCA Contract 02702 for Public Safety Communications Equipment and Services. The company's Federal Tax Identification Number shall remain 36-1115800.  
Contract customers should use the new company name – Motorola Solutions, Inc. – on their purchase orders and invoices. The company's payment remittance address and bank account shall remain the same. (To facilitate this company name change, purchase orders and payments will continue to be processed under the name Motorola, Inc.)
- 6. Add New Motorola Products:** Effective 2/28/11, the following new Motorola products were added to this contract - APX6500 Mobile Radios and APX7000XE/6000 Portable Radios. Price discounts will be the same as other APX radios listed in the contract. Reference the Motorola – WSCA Discount Matrix for applicable discounts off manufacturer's price list for these products.

**Previous Contract Changes (Shown in 11/29/10 contract update):**

1. **Update Contractor Information for:** Motorola, Inc.; Radio Frequency Systems, Inc.; Icom America, Inc.; Raytheon/JPS; Aviat Networks; and Harris, RFCD (reference each contractor's Contractor Information section for specifics).
2. **Participating Addendum for State of Hawaii:** WSCA acknowledged the execution of a Participating Addendum between the State of Hawaii (including Local Jurisdictions) and EF Johnson.
3. **Participating Addendum for the State of Arkansas:** On November 21, 2010, WSCA acknowledged the execution of a Participating Addendum between the State of Arkansas (including local public procurement units) and Harris RFCD.
4. **Price Decrease for Motorola APX Mobile and Portable Radios:** Effective August 30, 2010, Motorola increased its price discount for APX mobile and portable radios an additional 5%. Reference the Motorola – WSCA Discount Matrix for applicable discounts off manufacturer's price list for these products.
5. **General Dynamics SATCOM Technologies** undated its price list effective November 1, 2010, and R8000 equipment was also updated, including:
  - A new R8000 1GHz Premier model was added;
  - The base price of the R8000A and the R8000A 3GHz Premier Packages have been increased by \$980 (\$1,000 less the 2% WSCA discount);
  - Addition of NXDN test option for the R8000.
6. **Clarification of Freight Charges for Valmont:** For clarification purposes, effective December 1, 2010 with purchases from Valmont for component parts orders only, freight charges shall be prepaid and added to the invoice as a separate line item. Title to the goods remains Valmont's responsibility until delivery is completed. (Reference updated Contractor Information section.)
7. **Kenwood USA Corporation** undated its equipment list effective September 20, 2010. (Reference updated Contractor Information section.)
8. **Icom America, Inc.** updated its equipment list to include RF Technology Eclipse Series P25 Repeater – Analog Base Station which has been added to the contract. (Reference Contractor Information section for product information and prices.)
9. **Aeroflex Wichita, Inc.:** Effective July 12, 2010, Aeroflex Wichita Inc. updated its equipment list to include its 3250 Series Spectrum Analyzer which has been added to the contract. (Reference Contractor Information section for product information and prices.)

**Previous Contract Changes (Shown in 8/11/10 contract update):**

1. **Participating Addendums for the State of Kansas:** On April 14, 2010, WSCA acknowledge the execution of a Participating Addendum between the State of Kansas (including Interested Political Subdivisions) and Tait North America, Inc. Additionally, on May 17, 2010, WSCA acknowledge the execution a Participating Addendum between the State of Kansas (including Interested Political Subdivisions) and Kenwood USC Corporation.
2. **Participating Addendum for the State of Hawaii:** On April 14, 2010, WSCA acknowledge the execution of a Participating Addendum between the State of Hawaii (including Local Jurisdictions) and ICOM America, Inc.
3. **Participating Addendum for the State of Wisconsin:** WSCA has acknowledge the execution of a Participating Addendum between the State of Wisconsin (including Municipalities) and Eltek Valere Incorporated.
4. **Add New Harris RFCD Radio:** Effective August 2, 2010, the Unity™ XG-100P line of portable radios was added to this contract at a 26% level of price discount off Manufacturer's Standard Retail Price list. These radios will also carry a 3-year warranty rather than the standard 2-year warranty (reference Contractor Information and following pricing pages for additional information).
5. **Update Icom America Authorized Dealer List:** Effective May 2010, Icom America updated its authorized dealer list (reference Contractor Information section).
6. **Update EF Johnson Authorized Dealer List:** Effective June 22, 2010, EF Johnson updated its authorized dealer list (reference Contractor Information section).

7. **Update Harris RFCD Authorized Reseller List:** Effective June 24, 2010, Harris added a new authorized reseller for contract customers located in New Hampshire and the Contractor Information page has been reorganized.
8. **Update Vertex Standard Authorized Dealer List:** Effective July 8, 2010, Vertex Standard updated its authorized dealer list for the State of New Jersey (reference Contractor Information section).
9. **Update Contractor Information for Tait North America, Inc.** (reference Contractor Information section).

**Previous Contract Changes** (Shown in 4/30/10 contract update):

1. **Add New Motorola Products:** Effective April 30, 2010, the following new Motorola products will be added to this contract: Mototrbo mobile radios, portable radios and Base/Repeater Stations, APX 7500 mobile radios, APX 7000 portable radios and GTR 8000 Base/Repeater Stations. Reference the Motorola – WSCA Discount Matrix (provided on page 142) for applicable discounts off manufacturer’s price list for these products.
2. **Update Icom America Authorized Dealer List and Product Warranty:** Effective March 2010, Icom America updated its authorized dealer list and effective April 1, 2010 their equipment warranty has been updated as follows:
  - Three (3) years full parts and labor warranty on P25 digital and IDAS Land Mobile radios
  - Two (2) years full parts and labor warranty on all other Land Mobile radios
  - One (1) year full parts and labor warranty on all accessories
  - 1 / 2 / 3 years extended warranty options are available for Land Mobile division mainframes upon request.
3. **Update Alternate Contact for Aeroflex Wichita:** Phil Nickel is the company’s new Area Sales Engineer and alternate contact person for this contract. See Contractor Information for specifics.
4. **Clarify Pacific Electronic’s participation** in the contract as Harris RFCD’s authorized dealer for Washington and Oregon customers. See Contractor Information for specifics.

**Previous Contract Changes** (Shown in 3/16/10 contract update):

1. **Change in Contract Administrators:** Effective 3/01/10, Robert Paulson, Jr., C.P.M. shall take over the contracting responsibilities for this WSCA contract from Keith Armstrong.
2. **Add Raytheon Products:** Effective 2/19/10 new products from Raytheon JPS have been added to this contract. Reference Raytheon’s portion of this document for product descriptions and prices.
3. **Update EF Johnson product listing:** Reference EF Johnson’s portion of this document for product descriptions and prices.
4. **Update Stratex Networks name change to Aviat US, Inc.**
5. **Delete Tempest from Ceragon authorized dealer listing.**
6. **Contract Extension:** This contract has been extended with all vendors for an additional 24 months (10/30/09 – 10/29/11) under the existing terms, conditions products and pricing.
7. **Kenwood increased its warranty** to 3 years for equipment made after March 2009.
8. **California customers** can no longer use WSCA Contract for Motorola purchases.
9. **See Note VIII below about pending rebid of contract.**

## WESTERN STATES CONTRACTING ALLIANCE CONTRACT: 02702 PUBLIC SAFETY COMMUNICATIONS EQUIPMENT AND SERVICE CONTRACT.

### SCOPE OF THE CONTRACT

The purpose of this convenience, multi-state, contract is for the purchase of Public Safety Communication Equipment, and programs, as they are needed. The WSCA directors may authorize state and local governmental entities throughout the nation (NASPO) the use of this contract subject to approval of the local state purchasing director and local statutory provisions. The selected contractors shall accept purchase orders from and deliver products to approved purchasing entities. Contractors are required to offer warranty and maintenance services on products purchased under these agreements. Only Manufacturers submit proposals for products and/or services that they themselves produce in Phase I and/or Phase II. Phase I and Phase II are as follows:

**Phase I contract awards** were made to meet the needs of government purchases where the purchase is exempt from the organization's competitive bid rules/laws under sole source or installed base of equipment justification.

**Phase II contract awards** were the result of a competitive bid contracting process.

“WSCA” Means the Western States Contracting Alliance, a cooperative group contracting consortium for state government departments, institutions, agencies and political subdivisions (i.e., colleges, school districts, counties, cities, etc.) for numerous states.

WSCA Background Information: WSCA was formed in October 1993. The purpose of WSCA is to establish the means by which participating states may join together in cooperative multi-state contracting, to ensure the commitment of each participating state and to provide regular and ongoing assistance to participating states in researching, developing, and administering procurement and contractual specifications and requirements. WSCA maintains a cooperative relationship with the National Association of State Purchasing Officials (NASPO). The mission of WSCA is to implement multi-state contracts to achieve cost-effective and efficient acquisition of quality products and services and to promote interoperability and sharing amongst the WSCA participants.

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<b>Products/Services available:</b>	Public Safety Communication Equipment
<b>Related product contracts:</b>	Radio, Gateway devices, Towers, Microwave, Waveguides, Antennas, Power Supplies

#### NOTES:

I. State Agencies and authorized Political Subdivisions: Submit Order directly to Contractor for processing referencing this WSCA contract number #02702. If you are unsure of your status in the Washington State Purchasing Cooperative, call (360) 902-7400. Only authorized purchasers included in the Western States Contracting Alliance (WSCA), there local governments, poly-sub, and non-profits may use the contract.

Contract Terms: This Document includes by reference all terms and conditions published in the original RFP and Specification Documents.

II. The July 1, 2006 edition of this CCI document includes a revision to the Motorola contract segment. Effective with publication, the basis for pricing calculations will be the current Motorola list price. The new pricing replaces the old Motorola list price that was submitted with the original bid. Making this change was not a defacto price increase. A line-by-line review of the two lists indicated that there were no cases of like-for-

like price increases. The effect of the change was found to be minimal but would have the benefit of making pricing on new items available. At the same time, Motorola advanced the effective date of its final volume discount. Motorola was scheduled to move from a 2% to a 3% volume discount within a year. The July change makes the additional discount available now. Further, Motorola will reduce its payments to WSCA headquarters from 1.5% to ½ of 1% for all sales outside of WA. Motorola will retain the 1.5% administrative rate for WA sales.

Also with CCI revision was some administrative changes of taking out contract language that no longer applies and was struck through with computer lines. That old language and old outdated products and inapplicable terms were deleted.

III. The State of Minnesota has withdrawn from this WSCA contract according to published documents and confirmed reports with Minnesota procurement. No sales from any contract vendor are authorized.

IV. In July 2008, Motorola terminated its participating addendum with the State of California. No WSCA sales of Motorola equipment can be made using the contract.

V. On December 29, 2008, Radian/Rohn terminated its participation on the WSCA contract for all states. No sales for Radian/Rohn equipment is authorized using this contract. See Valmont for communication tower needs.

VI. Smartlink Radio Networks was sold to CalAmp Corporation. CalAmp Corporation assumed the WSCA contract obligations for sales and service. CalAmp designated Mutualink as its authorized distributor for CalAmp equipment that was previously sold by Smartlink Radio Networks. See CalAmp contact for details on sales and service on the contract.

VII. In the original bid, Motorola negotiated a category for “standalone accessories ordered without radios.” This category is designed for software and accessories that accompany system sales and system upgrades of existing radio equipment. See RFP Standard T’s & C’s, #19; Special T’s & C’s #15. One of the software products that fit within this category is Motorola’s “Asset Management” tool. This asset management tool stores radio equipment inventory with identification and location information has been available on the contract but not specifically listed on the contract document. Because many customers have requested this product for upgrading their radio system effectiveness, the product fits within the scope of accessories and it meets the discount authorized by the contract terms, it will be specifically listed on the contract document. This clarification makes it easy to identify the product for due diligence of purchasing staff. Sales of this product have been completed in Salem, Oregon, Klamath County, and Oregon Wireless Integrated Network (OWIN) project. Although, specifically listing out each accessory for each vendor is problematic, products not listed but within a major category with demand will be reviewed on a case-by-case basis by the Contract Administrator for a separate listing on the contract document. As the contract extension request begins, all vendors will be reminded of that opportunity to update their product listing, including separating item listings. June 2009

VIIa. Motorola recently acquired a majority stake in Vertex Standard. Because of that equity position, Vertex Standard has extended its participation on the contract under Motorola’s terms and conditions. Vertex Standard remains a separate entity operating under the same name. Vertex Standard’s contract extension ends October 29, 2011.

VIII. While the contract was extended until October 29, 2011, the contract is being reviewed for rebid in total or in part during the 2009 -2011 term. Customers and vendors are encouraged to send the contract administrator comments, suggestions about the pending rebid process. Both phases and all categories are being reviewed for this pending rebid process.

**SPECIAL CONDITIONS:**

Refer to the original RFP, Amendments and Specifications for all terms, conditions and equipment specifications.

**PARTICIPATING ADDENDUM INFORMATION**

For participating in this contract, a state agency, city, county or any other political subdivision should contact: Paul Stembler, WSCA/NASPO Cooperative Development Coordinator, phone: (612) 284-7123, Fax: (952) 392-4580, E-mail: [pstembler@amrms.com](mailto:pstembler@amrms.com) for guidance on completing a Participating Addendum (PA). Once executed, that PA allows the government entity to purchase from contract vendor(s) under the terms of the contract. Contact Mr. Sembler for a copy of the most current Participating Addendum form. The PA form should be completed and signed by the joining organization and the contract vendor. A PDF copy of the fully signed Participating Addendum form should then be attached to an e-mail and sent to Mr. Stembler at WSCA and the Lead State Contract Administrator for documentation purposes.

**Online reporting report to quarterly sales - <http://fortress.wa.gov/ga/apps/CSR/login.aspx>**

Have your contract administrator use their e-mail address and login password to access the online reporting. If you do not have an email address/password, or if you are having system trouble, please contact Customer Service at (360) 902-7400 or [csmail@ga.wa.gov](mailto:csmail@ga.wa.gov).

**Phase I Awards**

PHASE I, WAS NOT COMPETITIVELY BID AND CONTRACTS WERE BASED ON SOLE SOURCE, SPECIAL MARKET CONDITIONS:

All purchase entities must check with there laws governing sole source, special market conditions before using the Phase I contract. Phase I contract was based on special market conditions, an installed base and circumstances where only the same manufacturer is able to provide the replacement equipment.

Equipment Category	Status of Award	Date of Award
Category 1, Radios	Awarded	November 25, 2003
Category 1a, 900 MHz Radios	Awarded	August 3, 2007
Category 2, Aviation Radios	Awarded	November 25, 2003
Category 3, Dual Receiver Radio	Re-bid 2004	First Qtr 2004
Category 4, Gateway Devices:	Awarded	November 25, 2003
Category 5, Microwave	Awarded	November 25, 2003

Category 6, Towers	Awarded	November 25, 2003
Category 7 Microwave Antennas, Waveguide & Associated Hardware	Awarded	November 25, 2003
Category 8, Test Equipment	Awarded	November 25, 2003

### PHASE I

<b>Contractors:</b>	<b>Aeroflex Wichita, Inc.</b>	<b>Page 20</b>
	<b>Alcatel-Lucent USA, Inc.</b>	<b>Page 22</b>
	<b>Daniels Electronics, Ltd., dba Codan Radio Communications</b>	<b>Page 31</b>
	<b>EF Johnson Company</b>	<b>Page 39</b>
	<b>Aviat US, Inc. (formerly Harris Stratex Networks Corp)</b>	<b>Page 104</b>
	<b>Icom America, Inc.</b>	<b>Page 113</b>
	<b>Raytheon/JPS</b>	<b>Page 115</b>
	<b>Kenwood USA Corporation</b>	<b>Page 122</b>
	<b>Harris RFCD (formerly M/A COM of Tyco Electronics)</b>	<b>Page 127</b>
	<b>Motorola</b>	<b>Page 129</b>
	<b>Radio Frequency System, Inc.</b>	<b>Page 147</b>
	<b>RELM Wireless Corporation (King)</b>	<b>Page 157</b>
	<b>Sinclair Technologies, Inc.</b>	<b>Page 158</b>
	<b>Tait North America, Inc.</b>	<b>Page 161</b>
	<b>Valmont</b>	<b>Page 165</b>
	<b>Vertex Standard USA</b>	<b>Page 177</b>

### Phase II Awards

PHASE II, WAS COMPETITIVELY BID AND ALL PROCUREMENT PRACTICES WERE FOLLOWED.

Equipment Category	Status of Award	Date of Award or Proposed date of Award
Category 1, Radios	Awarded	October 30, 2003
Category 2, Aviation Radios	Awarded	October 30, 2003
Category 3, Dual Receiver Radio	Re-bid	1 <sup>st</sup> QTR 2004
Category 4, Gateway Devices:	Awarded	October 30, 2003
Category 5, Microwave	Awarded	October 30, 2003
Category 6 Towers	Awarded	October 30, 2003
CATEGORY 7 Waveguides and Antennas	Awarded	October 30, 2003
Aeroflex – Phase I & II	Awarded	October 30, 2003
Category 8, Test Equipment		

**PHASE II**

<b>Contractors:</b>	<b>Aeroflex Wichita, Inc.</b>	<b>Page 20</b>
	<b>Alcatel-Lucent USA, Inc.</b>	<b>Page 22</b>
	<b>EF Johnson Company</b>	<b>Page 39</b>
	<b>Aviat US, Inc. (formerly Harris Stratex Networks Corp)</b>	<b>Page 104</b>
	<b>Icom America, Inc.</b>	<b>Page 113</b>
	<b>Raytheon/JPS</b>	<b>Page 115</b>
	<b>Kenwood USA Corporation</b>	<b>Page 122</b>
	<b>Harris RFCD (formerly M/A COM of Tyco Electronics)</b>	<b>Page 127</b>
	<b>Radio Frequency System, Inc.</b>	<b>Page 147</b>
	<b>Valmont</b>	<b>Page 165</b>

**PHASE II**

**Category 1, Radios**

Link to Specifications: <http://www.ga.wa.gov/pca/bids/02702-Phase2-Category1.zip>

NA - Not awarded and will be added after these items are re-bid.

<b>Equipment</b>	<b>Link to Contractor</b>
<b>Portable Analog</b>	
High VHF 136-174 Quality Category A	EF Johnson Company
High VHF 136-174 Quality Category B	EF Johnson Company
High VHF 136-174 Quality Category C	Harris RFCD
High VHF 136-174 Quality Category D	Kenwood
<b>Portable Analog</b>	
UHF 450-470 Quality Category A	EF Johnson Company
UHF 450-470 Quality Category B	EF Johnson Company
UHF 450-470 Quality Category C	Kenwood
UHF 450-470 Quality Category D	EF Johnson Company
<b>Portable Analog</b>	
UHF 806-870 Quality Category A	EF Johnson Company
UHF 806-870 Quality Category B	EF Johnson Company
UHF 806-870 Quality Category C	EF Johnson Company
UHF 806-870 Quality Category D	EF Johnson Company
<b>Desktop Analog</b>	
High VHF 136-174 Quality Category A	NA
High VHF 136-174 Quality Category B	NA
High VHF 136-174 Quality Category C	NA
High VHF 136-174 Quality Category D	NA
<b>Desktop Analog</b>	
UHF 450-470 Quality Category A	NA
UHF 450-470 Quality Category B	NA
UHF 450-470 Quality Category C	NA
UHF 450-470 Quality Category D	NA

<b>Equipment</b>	<b>Link to Contractor</b>
<b>Desktop Analog</b>	
UHF 806-870 Quality Category A	NA
UHF 806-870 Quality Category B	NA
UHF 806-870 Quality Category C	EF Johnson Company
UHF 806-870 Quality Category D	EF Johnson Company
<b>Mobile Analog</b>	
High VHF 136-174 Quality Category A	NA
High VHF 136-174 Quality Category B	EF Johnson Company
High VHF 136-174 Quality Category C	EF Johnson Company
High VHF 136-174 Quality Category D	EF Johnson Company
<b>Mobile Analog UHF 450-470</b>	
UHF 450-470 Quality Category A	NA
UHF 450-470 Quality Category B	NA
UHF 450-470 Quality Category C	Harris RFCD
UHF 450-470 Quality Category D	NA
<b>Mobile Analog</b>	
UHF 806-870 Quality Category A	Harris RFCD
UHF 806-870 Quality Category B	NA
UHF 806-870 Quality Category C	EF Johnson Company
UHF 806-870 Quality Category D	EF Johnson Company
<b>Remote Base/Repeater Station Analog</b>	
High VHF 136-174 Quality Category A	NA
High VHF 136-174 Quality Category B	NA
High VHF 136-174 Quality Category C	NA
High VHF 136-174 Quality Category D	Harris RFCD
<b>Remote Base/Repeater Station Analog</b>	
UHF 450-470 Quality Category A	NA
UHF 450-470 Quality Category B	NA
UHF 450-470 Quality Category C	NA
UHF 450-470 Quality Category D	Harris RFCD
<b>Remote Base/Repeater Station Analog</b>	
UHF 806-870 Quality Category A	NA
UHF 806-870 Quality Category B	NA
UHF 806-870 Quality Category C	NA
UHF 806-870 Quality Category D	NA
<b>Portable Digital</b>	
High VHF-136-174 Quality Category A	EF Johnson Company
High VHF-136-174 Quality Category B	EF Johnson Company
High VHF-136-174 Quality Category C	EF Johnson Company
High VHF-136-174 Quality Category D	EF Johnson Company
<b>Portable Digital</b>	
UHF 450-470 Quality Category A	EF Johnson Company
UHF 450-470 Quality Category B	EF Johnson Company
UHF 450-470 Quality Category C	EF Johnson Company

<b>Equipment</b>	<b>Link to Contractor</b>
UHF 450-470 Quality Category D	EF Johnson Company
<b>Portable Digital</b>	
UHF 806-870 Quality Category A	EF Johnson Company
UHF 806-870 Quality Category B	EF Johnson Company
UHF 806-870 Quality Category C	EF Johnson Company
UHF 806-870 Quality Category D	EF Johnson Company
<b>Desktop Digital</b>	
High VHF 136-174 Quality Category A	NA
High VHF 136-174 Quality Category B	NA
High VHF 136-174 Quality Category C	NA
High VHF 136-174 Quality Category D	EF Johnson Company
<b>Desktop Digital</b>	
UHF 450-470 Quality Category A	NA
UHF 450-470 Quality Category B	NA
UHF 450-470 Quality Category C	NA
UHF 450-470 Quality Category D	NA
<b>Desktop Digital</b>	
UHF 806-870 Quality Category A	NA
UHF 806-870 Quality Category B	NA
UHF 806-870 Quality Category C	EF Johnson Company
UHF 806-870 Quality Category D	EF Johnson Company
<b>Mobile Digital</b>	
High VHF 136-174 Quality Category A	NA
High VHF 136-174 Quality Category B	Harris RFCD
High VHF 136-174 Quality Category C	EF Johnson Company
High VHF 136-174 Quality Category D	EF Johnson Company
<b>Mobile Digital</b>	
UHF 450-470 Quality Category A	NA
UHF 450-470 Quality Category B	Harris RFCD
UHF 450-470 Quality Category C	NA
UHF 450-470 Quality Category D	NA
<b>Mobile Digital</b>	
UHF 806-870 Quality Category A	NA
UHF 806-870 Quality Category B	NA
UHF 806-870 Quality Category C	EF Johnson Company
UHF 806-870 Quality Category D	EF Johnson Company
<b>Remote Bass/Repeater Station Digital</b>	
High VHF 136-174 Quality Category A	NA
High VHF 136-174 Quality Category B	NA
High VHF 136-174 Quality Category C	NA
High VHF 136-174 Quality Category D	NA
<b>Remote Bass/Repeater Station Digital</b>	
UHF 450-470 Quality Category A	NA
UHF 450-470 Quality Category B	NA
UHF 450-470 Quality Category C	NA

<b>Equipment</b>	<b>Link to Contractor</b>
UHF 450-470 Quality Category D	NA
<b>Remote Bass/Repeater Station Digital</b>	
UHF 806-870 Quality Category A	NA
UHF 806-870 Quality Category B	NA
UHF 806-870 Quality Category C	NA
UHF 806-870 Quality Category D	NA
<b>Mobile Trunked Digital</b>	
High VHF 136-174 Quality Category A	NA
High VHF 136-174 Quality Category B	NA
High VHF 136-174 Quality Category C	EF Johnson Company
High VHF 136-174 Quality Category D	EF Johnson Company
<b>Mobile Trunked Digital</b>	
UHF 450-470 Quality Category A	NA
UHF 450-470 Quality Category B	NA
UHF 450-470 Quality Category C	NA
UHF 450-470 Quality Category D	NA
<b>Mobile Trunked Digital</b>	
UHF 806-870 Quality Category A	NA
UHF 806-870 Quality Category B	NA
UHF 806-870 Quality Category C	EF Johnson Company
UHF 806-870 Quality Category D	EF Johnson Company
<b>Portable Trunked Digital</b>	
High VHF 136-174 Quality Category A	NA
High VHF 136-174 Quality Category B	EF Johnson Company
High VHF 136-174 Quality Category C	EF Johnson Company
High VHF 136-174 Quality Category D	EF Johnson Company
<b>Portable Trunked Digital</b>	
UHF 450-470 Quality Category A	EF Johnson Company
UHF 450-470 Quality Category B	EF Johnson Company
UHF 450-470 Quality Category C	EF Johnson Company
UHF 450-470 Quality Category D	EF Johnson Company
<b>Portable Trunked Digital</b>	
UHF 806-870 Quality Category A	NA
UHF 806-870 Quality Category B	EF Johnson Company
UHF 806-870 Quality Category C	EF Johnson Company
UHF 806-870 Quality Category D	EF Johnson Company
UHF 800 Quality Category	Not available
UHF 800 MHz	Not available

**Category 2, Aviation Radios**

Link to Specifications: <http://www.ga.wa.gov/pca/bids/02702-Phase2-Category2.doc>

Equipment	Link to Contractor
FM Band Aircraft Radio	Not available
AM Band Aircraft Radio	Icom America, Inc.

**Category 3, Dual Receiver, In-Band Repeater**

Link to Specifications: <http://www.ga.wa.gov/pca/bids/02702-Phase2-Category3.doc>

Equipment	Link to Contractor
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**Category 4, Gateway Devices:**

Link to Specifications: <http://www.ga.wa.gov/pca/bids/02702-Phase2-Category4.doc>

Equipment	Link to Contractor
Category 4, Specifications for ICRI audio switch	Not available
Category 4, Specifications for ACU1000 and ACU-5000 added 10/28/2011.	Raytheon/JPS
Category 4 IP Base Solution	Not available

**Category 5, Microwave**

Link to Specifications: <http://www.ga.wa.gov/pca/bids/02702-Phase2-Category5.doc>

Equipment	Capacity	Link to Contractor
Hot Standby - Terminal – 6 GHz	8T, 16T	Alcatel
Hot Standby - Terminal – 6 GHz	28T, OC3	Aviat US, Inc.
Non-Hot Standby – Terminal – 6 GHz	8T, 16T, OC3	Alcatel
Non-Hot Standby - Terminal – 6 GHz	28T, OC3	Aviat US, Inc.
Hot Standby – Terminal – 11 GHz	12T, 16T	Alcatel
Hot Standby - Terminal – 11 GHz	28T, OC3	Aviat US, Inc.
Non-Hot Standby – Terminal – 11 GHz	12T	Alcatel
Non-Hot Standby – Terminal – 11 GHz	16T, 28T, OC3	Aviat US, Inc.
Hot Standby - Terminal – 18 GHz	16T, 28T	Alcatel
Hot Standby - Terminal – 18 GHz	OC3	Aviat US, Inc.
Non-Hot Standby – Terminal – 18 GHz	16T	Alcatel
Non-Hot Standby – Terminal – 18 GHz	28T, OC3	Aviat US, Inc.
Hot Standby – Terminal – 23 GHz	16T, 28T, OC3	Alcatel
Non-Hot Standby - Terminal – 23 GHz	16T	Alcatel
Non-Hot Standby - Terminal – 23 GHz	28T, OC3	Aviat US, Inc.

Hot Standby – Repeater – 6 GHz	8T, 16T	Alcatel
Non-Hot Standby – Repeater – 6 GHz	8T, 16T, OC3	Alcatel
Non-Hot Standby – Repeater – 6 GHz	28T	Aviat US, Inc.
Hot Standby – Repeater – 6 GHz	28T, OC3	Aviat US, Inc.
Hot Standby – Repeater – 11 GHz	16T, 28T, OC3	Aviat US, Inc.
Non-Hot Standby – Repeater – 11 GHz	16T, 28T, OC3	Aviat US, Inc.
Hot Standby – Repeater – 18 GHz	16T, 28T	Alcatel
Hot Standby – Repeater – 18 GHz	OC3	Aviat US, Inc.
Non-Hot Standby – Repeater – 18 GHz	16T	Alcatel
Non-Hot Standby – Repeater – 18 GHz	28T, OC3	Aviat US, Inc.
Hot Standby – Repeater – 23 GHz	16T, 28T, OC3	Alcatel
Non-Hot Standby - Repeater – 23 GHz	16T	Alcatel
Non-Hot Standby - Repeater – 23 GHz	28T, OC3	Aviat US, Inc.

### Category 6 Communication Towers

Link to Specifications: <http://www.ga.wa.gov/pca/bids/02702-Phase2-Category6.doc>

Equipment	Link to Contractor
3-Legged Triangular Self Support Towers	Valmont
Guyed Towers	Valmont

### Category 7 Waveguides and Antennas

Link to Specifications: <http://www.ga.wa.gov/pca/bids/02702-Phase2-Category7.doc>

Equipment	Link to Contractor
Category 7 Waveguides and Antennas	Radio Frequency System

### Aeroflex – Phase I & II

### Category 8, Test Equipment

Link to Specifications: <http://www.ga.wa.gov/pca/bids/02702-Phase2-Category8.doc>

Equipment	Link to Contractor
Digital PROJECT 25	Aeroflex



**Aeroflex – Phase I & II**  
Category 8, Test Equipment  
Price Sheets

**For all Price Lists below:** 1 or 2 Units for a Single Order: Discount = 4% off Manufacturer List Price  
3 or more Units for a Single Order: Discount 5% off Manufacturer List Price

**Digital PROJECT 25**

**IFR 2975 discontinued, parts are available**

September 2009 Price List



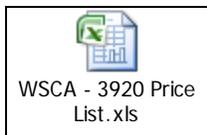
**2945B SERIES COMMUNICATIONS SERVICE MONITOR**

September 2009 Price List



Aeroflex: IFR 3920 Digital Radio Test Set (new options now available)

September 2012 Price List



**3550 Handheld Digital Radio Test Set**

September 2012 Price List

The 3500A test equipment was been discontinued and was replaced by 3550 radio test set. WSCA Contract pricing for 3550 test set equipment is:



**3250 Series Spectrum Analyzer**

July 2010 Price List



### CONTRACTOR INFORMATION

**Contractor:** [Alcatel-Lucent USA Inc.](#)

(Received award for Phase I and Phase II)

**Page number** <http://www.ga.wa.gov/pca/bids/02702-Phase2-Category5.doc>

**Contact:** Amy Lemons **Alternate Contact:** Eric Negley  
**Phone:** 843-743-1139 (770) 750-4435

**Fax:** 972-477-5157

**Email:** [amy.keck@alcatel-lucent.com](mailto:amy.keck@alcatel-lucent.com) [eric.negley@alcatel-lucent.com](mailto:eric.negley@alcatel-lucent.com)

**Internet address:** <http://www.alcatel-lucent.com>

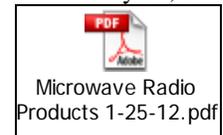
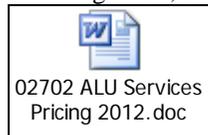
**Product Catalog** <http://www.ga.wa.gov/pca/contract/02702-Alcatel-Microwave-Network-102804.xls>

**Radio:** Effective: August 29, 2012

Effective: January 2012

Effective: January 25, 2012

**Product Catalog**  
**Network:**



**Federal ID No.:** 22-3408857

**Supplier No.:** W1159

**Total Contract worth:** \$10,700,000 (estimated based on 2012 sales)

**Payment address:** Alcatel-Lucent USA Inc.

**Order placement address:**

Alcatel-Lucent USA Inc.  
Alcatel-Lucent c/o Order Administration,  
600 March Road, Ottawa, ON  
K2K 2E6 CANADA  
Phone: 613-784-4227  
Toll Free: 800-777-6804  
Fax: 613-599-3632  
Email address:  
[order.now@alcatel-lucent.com](mailto:order.now@alcatel-lucent.com)

**Wire Remit Address:**

Alcatel-Lucent  
J.P. Morgan Chase Bank  
Account # 9101449099  
ABA # 021000021  
New York, NY 10081

**Overnight Check Remit Address**

Bank of America  
6000 Feldwood Road  
Lockbox # 100317  
College Park, GA 30349

**Regular Mailing Address:**

Alcatel-Lucent  
PO Box 100317  
Attn: Accounts Receivable  
Atlanta GA 30384-0317

**Customer Service:** Juanita Brown

**Telephone:** 613-784-4227

**Fax:** 613-599-3632

**Ordering procedures:** Contact Local Sales Rep

**Credit card acceptance:** None

**Minimum orders:** None

**Delivery time:** 90 days After Receipt of Order (ARO) All Specialized Configurations orders shall

not exceed 120 days.  
**Payment terms:** 0% 30 days  
**Shipping destination:** Freight on Board (FOB) destination  
**Freight:** Prepaid and included  
**Palletization:** N/A  
**Category:** Category 5, Microwave  
**Equipment Line items**  
**Link to bid Specifications** <http://www.ga.wa.gov/pca/bids/02702-Phase2-Category5.doc>  
**Awarded Phase(s)** Phase I & II

**Sales Contacts:**

**Scott Mehal:**

States Covered: Washington, Oregon, Idaho, Alaska  
Phone: 206-632-5030  
Email: [scott.mehal@alcatel-lucent.com](mailto:scott.mehal@alcatel-lucent.com)

**Jennie Burgoz:**

States Covered: Colorado, Wyoming, Montana,  
Utah, Oklahoma  
Phone: 303-809-3363  
Email: [jennie.burgoz@alcatel-lucent.com](mailto:jennie.burgoz@alcatel-lucent.com)

**Bryan Wassom:**

States Covered: California, Hawaii  
Phone: 925-485-3627  
Email: [bryan.wassom@alcatel-lucent.com](mailto:bryan.wassom@alcatel-lucent.com)

**Reno Moccia:**

States Covered: Arizona, New Mexico,  
Nevada  
Phone: 403-213-9747  
Email: [reno.moccia@alcatel-lucent.com](mailto:reno.moccia@alcatel-lucent.com)

**Authorized Reseller:**

1. Scientel Wireless  
948 Springer Drive  
Lombard, IL 60148  
Attn: Larry Dietrick, CEO  
Office Phone: (630) 652-3810

Phase II Category 5, Microwave  
 Alcatel

Manufacturer	Freq. Band	Capacity in T1's	Part number	Total Price
<b>Hot Standby - Terminal – 6 GHz</b>				
Alcatel	6 Ghz	8T	MDR-8706-8-29-HS	\$21,266
Alcatel	6 Ghz	16T	MDR-8706-16-29-HS	\$22,709
<b>Non-Hot Standby – Terminal – 6 GHz</b>				
Alcatel	6 Ghz	8T	MDR-8706-8-29	\$12,410
Alcatel	6 Ghz	12T	MDR-8706-12-29-NS	\$12,570
Alcatel	6 Ghz	16T	MDR-8706-16-29-NS	\$13,007
<b>Hot Standby – Terminal – 11 GHz</b>				
Alcatel	11 GHz	12T	MDR-8710-12-27-HS	\$24,765
Alcatel	11 GHz	16T	MDR-8710-16-27-HS	\$25,699
<b>Non-Hot Standby – Terminal – 11 GHz</b>				
Alcatel	11 GHz	12T	MDR-8710-12-27-NS	\$14,282
<b>Hot Standby - Terminal – 18 GHz</b>				
Alcatel	18 GHz	16T	9418-AWY-16-HS	\$11,406
Alcatel	18 GHz	28T	9418-AWY-28-HS	\$14,233
<b>Non-Hot Standby – Terminal – 18 GHz</b>				
Alcatel	18 GHz	16T	9418-AWY-16-NS	\$6,996
<b>Hot Standby – Terminal – 23 GHz</b>				
Alcatel	23 GHz	16T	9423-AWY-16-HS (with 1 ft. antenna)	\$12,006
Alcatel	23 GHz	28T	9423-AWY-28-HS (with 1 ft. antenna)	\$14,833
Alcatel	23 GHz	SONET-OC3	MDR-9X23S-HS (no DS1 access)	\$29,262
<b>Non-Hot Standby - Terminal – 23 GHz</b>				
Alcatel	23 GHz	16T	9423-AWY-16-NS (with 1 ft. antenna)	\$7,596
<b>Hot Standby – Repeater – 6 GHz</b>				
Alcatel	6 GHz	8T	MDR-8706-8-29-HS	\$41,970
Alcatel	6 GHz	16T	MDR-8706-16-29-HS	\$44,855
<b>Non-Hot Standby – Repeater – 6 GHz</b>				
Alcatel	6 GHz	8T	MDR-8706-8-29-NS	\$24,258
Alcatel	6 GHz	16T	MDR-8606-16-29-NS	\$25,451
Alcatel	6 GHz	SONET-OC3	MDR-8706s-155-29-NS	\$31,911
<b>Hot Standby – Repeater – 18 GHz</b>				
Alcatel	18 GHz	16T	9418-AWY-16-HS	\$21,726
Alcatel	18 GHz	28T	9418-AWY-28-HS	\$25,664
<b>Non-Hot Standby – Repeater – 18 GHz</b>				
Alcatel	18 GHz	16T	9418-AWY-16-NS	\$12,906
<b>Hot Standby – Repeater – 23 GHz</b>				
Alcatel	23 GHz	16T	9418-AWY-16-NS	\$22,926
Alcatel	23 GHz	28T	9423-AWY-28-HS (with 1 ft. antenna)	\$26,864
Alcatel		SONET-OC3	MDR-9X23S-HS (No DS1 access)	\$57,438
<b>Non-Hot Standby - Repeater – 23 GHz</b>				
Alcatel	23 GHz	16T	9423-AWY-16-NS (with 1 ft. antenna)	\$14,106

## **WSP System Rack Configuration & Management**

Each rack pricing shall contain and/or include:

- 3 ea. WSCA compliant 6 GHz Sonet-OC3, space diversity capable microwave terminal.
- 1 ea. Multi-Service Platform (ATM) Router with 2ea 1-Port OC3, 1ea 3-port DS3, 1ea 4-Port Ethernet and 1ea 8-Port T1 Cards as a standard configuration.
- 2 ea. T1/E1 Channel Bank Multiplexer with 2 FXO, 2 FXS and 12 4-wire E&M Channel Cards as a standard configuration.
- 1ea 1RU Fuse Panel
- 1ea Rack Isolation and Bracing Kit (per R56 Standard)
- Option to add DS3 WSCA compliant Microwave radio

Each rack will need to reserve room for:

- VF Jackfield (2RU)
- T1 / Ethernet RJ045 Jackfield (1RU)
- Wayside T1 Router (1RU)
- Wayside Ethernet 16 port switch ( 1 RU)

### **Network Management:**

- **All OC3 & DS3 Radios, Multi-Service Platform (ATM) Routers and T1/E1 Channel Bank Multiplexers must be managed by a single Network Management System.**

	Description	*Qty	Unit	Unit Price	Total Price
1.	<p>Complete Microwave Rack</p> <p>Description *Qty Unit Unit Price Total Price</p> <ul style="list-style-type: none"> <li>• 3 each 6 GHz OC-3, space diversity radios with +29 dBm power output, 7' Seismic rack, 19" wide, with PDU, and grounding kit.</li> </ul>	1	EA	\$60,361	\$60,361
	<ul style="list-style-type: none"> <li>• 1 ea. 7270 Multi-Service Platform (ATM)Router with 2ea 1-Port OC3, 3ea 1-port DS3, 1ea 4-Port Ethernet and 1ea 8-Port T1 Cards as a standard configuration. <b>Please see Attachment C for 7270 configuration details</b></li> </ul>	1	EA	\$43,455	\$43,455
	<ul style="list-style-type: none"> <li>• 2 ea. 3630 T1/E1 Channel Bank Multiplexer with 2 FXO, 2 FXS and 12 4-wire E&amp;M Channel ports as a standard configuration. Please see Attachment D for configuration details.</li> </ul>	1	EA	\$8,540	\$8,540
	<ul style="list-style-type: none"> <li>• Not included in Microwave rack, but included in solution is the 5620 Network Management. This price reflects network management for 55 racks as described above. Please see Attachment E for configuration details</li> </ul>	1	EA	\$5,355.45	\$5,355.45
<b>Total price</b>					<b>\$117,711.45</b>

**Response on the 18 and 23 Ghz Space Diversity pricing.**

The 18 and 23 Ghz space diversity configurations are non-standard. The configuration is accomplished by combining two non-standby ODU's with a Hot-standby IDU. The manufacturing build cost is similar to the cost to build two non-standby terminals so the pricing has been set up to reflect the non-standby pricing. The pricing for a 18 Ghz OC3 terminal discounted is \$15,701 per the WSCA pricing. Doubling it for the space diversity configuration brings us to the \$31,402. the other 18 and 23 Ghz configurations are similarly priced.

	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total Price</b>
	Not for bid award, this pricing will be use to add and remove equipment as require per site location.				
1.	6 GHz Sonet-OC3, space diversity capable microwave terminal +29 dBm, Non Standby, Space Diversity	1	EA	\$20,363*	\$20,363*
2.	11 GHz Sonet-OC3, space diversity capable microwave terminal +27 dBm, Non Standby, Space Diversity	1	EA	\$21,838*	\$21,838*
3.	18 GHz Sonet-OC3, space diversity capable microwave terminal	1	EA	\$31,402*	\$31,402*
4.	23 GHz OC3 Sonet-OC3, space diversity capable microwave terminal	1	EA	\$32,484*	\$32,484*
5.	6 GHz DS3 space diversity capable microwave terminal +29 dBm, Non Standby, Space Diversity	1	EA	\$17,725*	\$17,725*
6.	11 GHz DS3 space diversity capable microwave terminal +27 dBm, Non Standby, Space Diversity	1	EA	\$19,200*	\$19,200*
7.	18 GHz DS3 space diversity capable microwave terminal	1	EA	\$9,700*	\$9,700*
8.	23 GHz DS3 space diversity capable microwave terminal	1	EA	\$9,700*	\$9,700*
9.	Multi-Service Platform (ATM) Router with 2ea 1-Port OC3, 1ea 3-port DS3, 1ea 4-Port Ethernet and 1ea 8-Port T1 Cards as a standard configuration.	1	EA	\$43,455*	\$43,455*
10.	T1/E1 Channel Bank Multiplexer with 2 FXO, 2 FXS and 12 4-wire E&M Channel Cards as a standard configuration.	1	EA	\$4,270*	\$4,270*
11.	1RU Fuse Panel	1	EA	\$341*	\$341*
12.	Rack Isolation and Bracing Kit (per R56 Standard	1	EA	\$113*	\$113*
13.	5620 EN Values: <ul style="list-style-type: none"> <li>• 7470 = 40 points</li> <li>• 7270 = 20 points</li> <li>• 3600 = 10 points</li> <li>• 3630 = 5 points</li> <li>• MDR8000s = 2 points</li> </ul>	1pt	EA	\$125*	\$125*

\*Pricing from the WSCA Contract.

<b>RF PERFORMANCE 2.47 GHz BAND RADIO</b>		
<b>Purpose</b> The purpose of this section is to define the RF performance characteristics for radio equipment operating in the 2.47 GHz microwave radio band.	Read and Understood	
<b>Regulatory Compliance</b> All radio equipment supplied under this contract shall meet the requirement of the approved Sub-Sections of Volume 47 of the Federal Code of Regulations.	Comply	
<b>Configuration</b>		
The equipment supplied for this band shall be available in a hot-standby version having redundant receiver, transmitter, power and multiplex components.	Comply	
<b>Frequency Range and Bandwidth</b>		
The equipment supplied for this band shall comply with the following requirements:	Comply	
<b>Capacity</b>	<b>Frequency in MHz</b>	<b>RF Bandwidth in MHz</b>
2xDS1	2450-2483.5	1.25
4 xDS1	2450-2483.5	2.5
8 xDS1	2450-2483.5	2.5
Bidders may provide other bandwidths as options. These shall be fully compliant with the current FCC Part 101 technical requirements.	Read and Understood	
<b>Feedline Connection</b>		
The antenna connection shall be a Type-N female. If an adapter is required to convert from the standard connector on the radio unit, it shall be supplied and included in the unit price.	Comply	
The system shall operate with an antenna system with a peak return loss of 18 dB or greater.	Comply	
A single feedline connection point shall be provided for all radio configurations except space diversity. Space diversity configurations shall have two feedline connection points, one for one receiver and any transmitters and the other for the diversity receiver.	Comply	
<b>RF Power Levels</b>		
The equipment shall have a minimum output high-power level of +33dBm and low-power level of less than or equal to +15dBm	Comply	The high-power level will be + 34 dBm. Low-power level will be + 14 dBm.
Power levels shall be measured at the feedline connection point and shall include all branching losses. Hot-standby configurations may have power levels reduced from the levels listed above to account for switching losses.	Comply	

Automatic transmitter power control (ATPC) shall be available as an option. It shall be capable of being disabled in the field by operator programming.	Comply	
<b>General Transmitter Specifications</b>		
Frequency stability shall be $\pm 0.001$ percent or greater over the full operating range of the equipment.	Comply	
The transmitter shall be fully solid state.	Comply	
Failure of a redundant amplifier in hot-standby configurations shall not reduce the power output from the radio.	Comply	
Replacement of a failed redundant (standby) amplifier shall not cause a system outage.	Comply	
The transmitter shall be equipped with ability to monitor output power and frequency on an in-service basis.	Comply	
<b>Receiver Thresholds</b>		
Receivers shall have the following guaranteed receive thresholds as a maximum level to obtain a BER $1 \times 10^{-3}$ in a non-protected configuration.	Comply	

<b>Guaranteed capacity at minimum Received Signal Level (RSL) in dBm as listed below.</b>		
2 - DS-1	-87	Comply
4 - DS-1	-84	Comply
8 - DS-1	-77	Comply
Received threshold levels shall be measured at the feedline connection point and shall include all branching losses.	Comply	
<b>Interference Criteria</b>		
Threshold to interference (T/I) ratios for a like signal required are shown below for the following scenarios:		Comply
2 DS-1	4 DS-1	8 DS-1
Co-Channel		
28	28	28
Adjacent Channel		
-8	-8	-8
		Comply
<b>General Receiver Specifications</b>		
The receiver frequency stability shall be $\pm 0.001$ percent or better over the operating range of the receiver.	Comply	
The receiver shall have a maximum received signal limit of not less than -17dBm when at a 1 in $10^{-3}$ BER.	Comply	
The dynamic range of the receiver shall be a minimum of 58 dB.	Comply	

<b>Req. Item</b>	<b>Description</b>	<b>*Qty</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total Price</b>
1	2.47 GHz, Digital Radio, Hot Standby, 2XDS1, High Power (+34dBm)  <i>For Product Bid State:</i> <i>Mfg.: Alcatel USA Marketing, Inc.</i> <i>Brand/Model: <u>MDR-8502-2-34-HS</u></i>	10	EA	\$19,883.00	\$198,830.00
2.	2.47 GHz, Digital Radio, Hot Standby, 4XDS1, High Power (+34dBm)  <i>For Product Bid State:</i> <i>Mfg.: Alcatel USA Marketing, Inc.</i> <i>Brand/Model: <u>MDR-8502-4-34-HS</u></i>	10	EA	\$20,644.00	\$206,440.00
3.	2.47 GHz, Digital Radio, Hot Standby, 8XDS1, High Power (+34dBm)  <i>For Product Bid State:</i> <i>Mfg.: Alcatel USA Marketing, Inc.</i> <i>Brand/Model: <u>MDR-8702-8-34-HS</u></i>	10	EA	\$21,928.00	\$219,280.00
<b>Total price for bid evaluation and award</b>					<b>\$624,550.00</b>
<b>The listed prices represent % off manufacturer list price</b>					<b>45,47 &amp; 51% Respectively</b>

\*The Qty is an estimate usage; the actual qty will be dependent on funding and the final system design.

### CONTRACTOR INFORMATION

**Contractor:** **Daniels Electronics, Ltd dba Codan Radio Communications**

(Received award for Phase I)

**Contact:** Steve Chipok, Program  
Manager

**Phone:** (585) 419-9970

**Fax:** (585) 419-9971

**Email:** Steve.chipok@codanradio.com

**Internet address:** [www.codanradio.com](http://www.codanradio.com)

**Product catalog address:** <http://www.ga.wa.gov/pca/contract/02702-Daniels-Radio-100704.pdf>

**Federal ID No.:** 98-0427975

**Supplier No.:** W3347

**Total Contract worth:** \$1,870,000 (estimate based on 2012 sales)

**Payment address:** Codan Radio Communications  
43 Erie Street,  
Victoria, BC, Canada V8V 1P8

**Order placement address:** Codan Radio Communications  
43 Erie Street,  
Victoria, BC, Canada V8V 1P8

**Customer Service:** Don Brown

**Telephone:** 1-800-664-4066

**Fax:** 1-877-750-0004

**Ordering procedures:**

**Credit card acceptance:** VISA, MasterCard

**Minimum orders:**

**Delivery time:** 120 Days ARO

**Payment terms:** 2% Net 20

**Shipping destination:** Free on Board (FOB) Destination

**Freight:** Prepaid and included

**Palletization:**

**Category**

**Equipment Line items**

**Link to bid Specifications**

**Link to Price Sheets**

**Awarded Phase(s)** Phase I

**SERVICING:** Indicate below the names and addresses of sales representatives and specific territories covered. Proposer's ability to service state agencies including local sales representation may be a factor in the award. Contractor must provide immediate attention to problem areas as they arise regardless of location. Submit an attached letter if necessary.

NAME: Alster Communications LLC  
ADDRESS: PO Box 12428  
Mill Creek, WA 98082  
TERRITORY: AK, WA, OR, ID, HI, MT  
PHONE: (425) 379 – 7574

NAME: Aurora Marketing  
ADDRESS: 2018 South Pontiac Drive  
Denver, CO 80224  
TERRITORY: MT, ID, WY, UT, CO, NM, TX  
PHONE: (303) 758-3051

NAME: DacoM  
ADDRESS: 6119-A 27th St  
Sacramento, CA 95822  
TERRITORY: Northern CA, Northern NV  
PHONE: (916) 422-3453

NAME: Bassett Sales Corporation  
ADDRESS: 1101 Chestnut Street  
Burbank CA  
TERRITORY: Southern CA, Southern NV, AZ  
PHONE: 800 422 1003

**FACTORY AUTHORIZED SERVICE:**

Factory authorized service must be available in the destination area. List your service centers including name and address of each.

FIRM NAME: Daniels Electronics Ltd.  
ADDRESS: 43 Erie Street , Victoria, BC  
V8V 1P8 Canada

## **SERVICE CENTERS**

Daniels Electronics Ltd., 43 Erie Street, Victoria BC, Canada, 1-800-664-4066

Ship to:

**Daniels Electronics Ltd.**  
**c/o The Victoria Clipper**  
**2701 Alaskan Way, Pier 69**  
**Seattle, WA 98121**

\_ENVTEST AMP Environmental Test of Amplifier \$205.00  
\_ENVTEST RECEIVER Environmental Test of Receiver \$150.00  
\_ENVTEST TRANSMITTER Environmental Test of Transmitter \$150.00  
\_LABOUR-CONFIG Labour/hr. Required for custom radio design \$150.00  
\_LABOUR-SERVICE Labour/hr. for repairs, maintenance etc. \$100.00  
AC-3E Crossband E&M Control Card \$625.00  
AC-CAT-E1 Status Tone Encoder \$150.00  
AC-CTCSS-DE1 CTCSS Decoder \$195.00  
AC-CTCSS-E1 CTCSS Encoder \$150.00  
AC-CTCSS-TDS-1 Module, CTCSS ENC/DEC, Burst, ANI \$195.00  
AC-CTCSS-TS-64 Module, CTCSS Encoder/Decoder \$195.00  
AC-DCS1 Digitally Coded Squelch \$195.00  
AC-DTMF-D2 DTMF Decoder \$230.00  
AC-MC1 Morse Code ID Generator \$400.00  
AC-RS11 CTCSS Rotary Switch Interface - (Common En/Decode Freq.) \$530.00  
Includes CTCSS module, not available on AC-3M-96 or AC-3S-96  
AC-RS12 CTCSS Rotary Switch Interface - (Different En/Decode Freq.) \$710.00  
Includes CTCSS module, not available on AC-3M-96 or AC-3S-96  
AC-SCS-1RS 16 Channel Frequency Select Rotary Switch, 1 Switch \$60.00  
AC-SCS-2RS 16 Channel Frequency Select Rotary Switch, 2 Switches \$120.00  
A-INTERCON-96 Repeater Interconnect, 96 Pin Aux connector and housing for user-built aux. cables \$50.00  
A-MIC-01 Microphone \$140.00  
AMP-140-110-D1P AMP,136-144,60-110W,13.8V,Rear \$2,195.00  
AMP-140-110-D1R AMP,136-144,60-110W,13.8V,Rack \$2,195.00  
AMP-148-110-D1P AMP,144-152,60-110W,13.8V,Rear \$2,195.00  
AMP-148-110-D1R AMP,144-152,60-110W,13.8V,Rack \$2,195.00  
AMP-157-110-D1P AMP,152-162,60-110W,13.8V,Rear \$2,195.00  
AMP-157-110-D1R AMP,152-162,60-110W,13.8V,Rack \$2,195.00  
AMP-168-110-D1P AMP,162-174,60-110W,13.8V,Rear \$2,195.00  
AMP-168-110-D1R AMP,162-174,60-110W,13.8V,Rack \$2,195.00  
AMP-2/1XX-30-00 VHF 30 Watt Power Amplifier \$1,005.00  
AMP-2/450-30-00 UHF 30 Watt Power Amplifier \$1,005.00  
AMP-P10-2AA1-C1 Power Amplifier, 2 W in/100 W out, 30-36 MHz \$1,445.00  
AMP-P10-2AB1-C1 Power Amplifier, 2 W in/ 100 W out, 36-42 MHz \$1,445.00  
AMP-P10-2AC1-C1 Power Amplifier, 2 W in/ 100 W out, 42-50 MHz \$1,445.00  
AMP-P10-2HA1-C3 Power Amplifier, 2 W in/ 100-150 W out, 450-470 MHz \$2,045.00  
AMP-P25-2AA1-C1 AMP,30-36MHz,2.5W I/P,250W O/P \$2,950.00  
AMP-P25-2AB1-C1 AMP,36-42MHz,2.5W I/P,250W O/P \$2,950.00

AMP-P25-2AC1-C1 AMP,42-50MHz,2.5W I/P,250W O/P \$2,950.00

AMP-P25-2EA1-C1 AMP,152-162MHz,5W I/P,250W O/P \$2,950.00

Phone: 1-800-664-4066

Fax: 1-877-750-0004

web: www.danelec.com

email: sales@danelec.com

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AMP-P25-5EA1-C1 AMP,152-162MHz,5W I/P,250W O/P \$2,950.00

AMP-P9-2K1-C1 Power Amplifier, 2 W in/ 80 W out, 806-870 MHz \$2,375.00

A-PK-GLOBALSTAR Globalstar System Interface Kit \$1,300.00

Includes: telephone interconnect, mounting bracket and connectors

A-PK-IRIDIUM Interface Kit for Iridium System \$4,045.00

Includes: telephone interconnect, extended transportable case and connectors.

A-PK-RX3N214 12.5 KHz modification kit for conversion to narrowband Rx \$210.00

A-PNL-AUX96-3 96 Position Rear Terminal Block, mounted on back panel \$250.00

A-PNL-DUP-02 Tray Panel for Comprod Duplexer \$40.00

A-PNL-SP-01 Speaker Panel, 19" Rack mount, 3 RU height \$245.00

APP-FIRM01-W-XX Firmware (P25 Digital Upgrade), MT-4E Receiver, Ver XX \$1,850.00

APP-FIRM02-W-XX Firmware (P25 Digital Upgrade), MT-4E Transmitter, Ver XX \$2,400.00

APP-RSS03-WC-XX Radio Service Software, RSS4E \$290.00

APP-UIC-4-01 Software, UIC-4 \$0.00

APP-UIC-4-02 Software, UIC-4, Fixed Station Interface \$1,500.00

A-TK-01 Alignment/Maintenance Kit for MT-3 \$55.00

A-TK-04 Alignment/Maintenance Kit, MT-4 \$95.00

CBL223-NXXNXXXXX RG223 RF Cable (Type N Bulkhead) \$85.00

CBL223-XPOXPOXX RG223 RF Cable (Type N OR BNC Connector) \$60.00

CBL223-XR0XR0XX RG223 Cable (Type N or BNC Connector) Right angle connection \$70.00

CBLAUX-96-1.22 Auxilliary Control Cable, 1.22 M (4 ft.) \$175.00

CBLC40-01025100 Interconnect Cable, CI-DSP-223, DB-25 to bare wires (For conntection to

A-PNL-AUX96-3)

\$70.00

CBLC41-43525110 Interconnect Cable, CI-DSP-223, DB-25 to 96 pin connector (For connection directly to subrack)

\$115.00

CBLC44-20704305 Cable/USB2.0,A-B(mini)M-M,10ft \$25.00

CBLC46-12506XXX Cable, RJ45 Plug-Plug, 8 position \$25.00

CBLC46-KEYLDR-0 Encryption Key Loader Cable \$105.00

CBLPXX-XXXXXXXXXX Power Cable for Transportable Case \$80.00

CI-BC-4E-00 Control, P25 Base, Local/REM,E&M \$1,000.00

CI-C-2002HS Radio Control Console, 2 Line \$1,485.00

CI-DSP-223 Tone Remote Adapter \$825.00

Includes: interconnect & programming cables

CI-IP-223 VOIP Remote Adapter \$2,100.00

Includes: interconnect & programming cables

CI-MODEL66 Controller, Transmitter \$2,142.00

CI-PM-3-00 Digital Paging Interface Card \$1,240.00

CI-RC-4L-00 Digital Crossband Low Current Control Card \$625.00

CI-RC-4L-10 Digital Low Current Control Card, NIFC version \$1,215.00

CI-RC-4M-00 Controller/P25 Repeater Master \$2,500.00

CI-RC-4M-01 Controller/P25 Rptr, Package includes E&M Expansion Board and Analog Tone Board  
\$3,250.00

Phone: 1-800-664-4066

Fax: 1-877-750-0004

web: www.danelec.com

email: sales@danelec.com

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CI-RC-4M-EM/EXP Expansion/E&M Board, CI-RC-4M \$500.00

CI-RC-4M-TONE Analog Tone Board, CI-RC-4M \$500.00

CI-RSWITCH-0 Redundant Switch \$1,625.00

CP-SC-3 Synthesizer Channel Programmer \$920.00

DUP-132-150JHPN Duplexer, 132-150MHz,100W,2 MHZ \$2,240.00

DUP-136-174EKP Duplexer,136-174MHz,50W,4.5MHZ \$650.00

DUP-136-174TDHN Duplexer, 136-174M,350W,500KHZ \$1,705.00

DUP-136-174TDRN Duplexer, 136-174M,350W,500KHZ \$2,350.00

DUP-144-174JHPN Duplexer, 144-174MHz,100W,2 MHZ \$2,240.00

DUP-350-512EMLB Duplexer, 350-512MHz,50W,5 MHZ \$600.00

DUP-406-512LMLN Duplexer,406-512MHz,125W,5 MHZ \$1,340.00

DUP-406-512LMRN Duplexer,406-512MHz,125W,5 MHZ \$1,745.00

DUP-806-896EYCB Duplexer,806-896MHz,50W,45 MHZ \$460.00

DUP-896-960EUPB Duplexer,896-960MHz,50W,24 MHZ \$460.00

EC-48RD 48 Pin Extender, Direct connect for use with RF modules or system regulator \$190.00

EC-48RK-1.22 48 Pin Extender Kit W/ Cable \$375.00

For RF modules and system regulator

EC-96D1 96 Pin Extender Card \$115.00

Direct connect for use with 96 pin audio control cards

EC-96K-1.22 96 Pin Extender Kit W/ Cable \$520.00

ENCRYPT-MT4E-XX Encryption for MT-4E RX/TX \$1,740.00

ES-1-B20-00 Steel freestanding 19" Rack Cabinet, open front and back, 20 RU height \$560.00

ES-1-B20-D0 Flush mount rack door, with lock for use with 20 RU height cabinet \$190.00

ES-1-B28-00 Steel freestanding 19" Rack Cabinet, open front and back, 28 RU height \$1,380.00

ES-1-B28-D0 Flush mount rack door, with lock for use with 28 RU height cabinet \$420.00

ES-4-D90-01 19" Open Frame Relay Rack, 90" Height \$1,350.00

ET-1-A06-00 19" Polyethylene Transportable Case \$3,245.00

Holds 2 subracks, 6 RU height, shock mounted subrack, water tight lid

ET-1-A09-00 Transportable Case for 9U Rack \$3,575.00

ET-3-03-00 Orange 19" Transportable Case \$2,500.00

Includes: 2 RF connectors, AC and DC (6 ft. power cables). RF cables sold separately.

ET-3-03-05 Black 19" Transportable Case, Aluminum \$2,500.00

Includes: 2 RF connectors, AC and DC (6 ft. power cables). RF cables sold separately.

ET-4-A09-00 Polyethylene Briefcase \$835.00

ET-4-A09-01 Briefcase Package incl. Power Module & Accessory Box \$1,900.00

IM08-MT-4E-TXRX Manual, MT-4E Receiver & Transmitter \$25.00

IM10-VR3H040 VR-3H040 Synthesized Rx Manual \$25.00

IM12-001 VR-3A130, AM Rx Manual \$25.00

IM20-VT3H040 VT-3H040 Synthesized Tx Manual \$25.00

IM22-001 VT-3A130, AM Synthesized Tx Manual \$25.00

Phone: 1-800-664-4066

Fax: 1-877-750-0004

web: [www.danelec.com](http://www.danelec.com)

email: [sales@danelec.com](mailto:sales@danelec.com)

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IM31-SM3 System Regulator Manual \$25.00

IM35-MB84RX Multi Rx Subrack Manual \$25.00

IM35-MB84TX Multi Tx/Amp Subrack Manual \$25.00

IM35-SR3MB84 Subrack Manual \$25.00

IM42-AC3 Audio Control Manual \$25.00

IM51-CPSC3 Synth Channel Programmer Manual \$25.00

IM55-002 Manual, P25 Base Control, CI-BC-4E \$25.00

IM55-003 Redundant Switch Manual \$25.00

IM55-004 Manual, RC-4M Multi link Controller \$25.00

IM55-005 Manual, UIC-4, Universal Interface Card \$25.00

IM55-CIPM3 CI-PM-3 Paging Modulator Manual \$25.00

IM55-CIRC4L P25 Repeater Controller Manual \$25.00

IM55-GLOBALSTAR Manual, GLOBALSTAR System \$25.00

IM71-001 AMP-2/145/155/170/-30 Manual \$25.00

IM71-002 Manual, AMP-2/450-30 \$25.00

IM81-001 PSA-12A09-P0-00 Power Supply Manual \$25.00

IM81-002 PSA-12A09-PB-00-UB-00 Manual \$25.00

IM81-PSA12X0 PSA-12-40 & PSA-12-60 Manual \$25.00

IM81-PSD2 Manual, PSD-2-xx/15 DC/DC cnvtr \$25.00

IM85-001 Manual, Power Supply for ET-4 \$25.00  
IM85-002 Manual, ET-4-A09-0X Deployment \$25.00  
IM87-BSSP Speaker Panel Base Station Manual \$25.00  
IM87-NCONV Narrowband Conversion Manual \$25.00  
IMXX-XXXXXXX Radio Module Instruction Manual \$25.00  
PSA-12-09-RB-20 Power Supply, 12VDC/9A \$1,300.00  
PSA-12-40-RB-00 Power Supply, 12VDC-40A,Rack Mt \$1,100.00  
PSA-12-60-RB-00 Power Supply,12VDC-60A,Rack Mt \$1,325.00  
PSA-12A09-PB-00 Power Supply, 12VDC, W/Battery backup \$500.00  
PSA-12A09-UB-00 Power Supply, 12VDC, W/Battery backup \$445.00  
PSBENC-002 Enclosure/Battery, Portable, 12 V, 35 AH \$400.00  
PSB-P-12V10A502 Battery/Lead Acid, 12V, 10.5 Ah \$55.00  
PSD-15-08-P0-80 Converter, DC/DC, 8A, 18-36V \$890.00  
PSD-15-08-P0-90 Converter, DC/DC,8A,36-72V I/P \$620.00  
PSS-PS-40W-01 Solar System, Portable, 40 W, Black \$1,650.00  
SA-VIB-22 Anti-Vibration Kit \$80.00  
SM-3-H0-014-00 System Regulator \$605.00  
SM-3-H0-014-05 Audio Module \$600.00  
SM-3-H0-R1N-00 System Regulator, 1 Antenna Relay \$1,105.00  
SM-3-H0-R2N-00 System Regulator, 2 Antenna Relays \$1,605.00  
SR-39-1 Subrack \$780.00

Phone: 1-800-664-4066

Fax: 1-877-750-0004

web: [www.danelec.com](http://www.danelec.com)

email: [sales@danelec.com](mailto:sales@danelec.com)

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H1a

2.40

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SR-39-3 Multi Rx Subrack \$720.00

SR-39-4 Multi Tx/Amp Subrack \$1,020.00

TRAINING-01 2-Day Training - Daniels Facility - per Student \$450.00

Price per student which includes manuals and course material.

TRAINING-02 2-Day Training - Customer's Facility - 8 Students \$5,500.00

Includes manuals and course material for up to 8 students. Held at appropriate training facility provided by customer (Within the US, excluding Territories)

TRAINING-03 2-Day Training - Customer's Facility - Additional Student \$350.00

Each additional student over 8.

TRAINING-04 3-Day Training - Daniels Facility - per Student \$550.00

Includes manuals and course material.

TRAINING-05 3-Day Training - Customer's Facility - 8 Students \$6,900.00

Includes manuals and course material for up to 8 students. Held at an appropriate training facility provided by the customer. (Within the US, excluding Territories)

TRAINING-06 3-Day Training - Customer's Facility - Additional Student \$400.00

Price per each additional student.

UIC-4-00 Universal Interface Cntrl, 7HP \$1,500.00  
UR-4E420-00-000 RX, MT-4E Analog Class B, 406-430 MHz \$1,850.00  
UR-4E420-A0-000 RX, MT-4E Analog Class A, 406-430 MHz \$2,050.00  
UR-4E460-00-000 RX, MT-4E Analog Class B, 450-470 MHz \$1,850.00  
UR-4E460-A0-000 RX, MT-4E Analog Class A 450-470 MHz \$2,050.00  
UR-4E500-A0-000 RX, MT-4E Analog Class A, 470-512 MHz \$2,050.00  
UT-4E450-00-800 TX, MT-4E Analog Class A, 406-470 MHz \$1,485.00  
UT-4E500-00-800 TX, MT-4E Analog Class A 470-512 MHz \$1,485.00  
VR-3A130-SYF210 RX, MT-3/AM, 118-137 MHz \$1,705.00  
VR-3AXXX-XXXXXXX RX, MT-3/AM \$1,705.00  
VR-3H035-SWA200 RX, MT-3, VHF(030-039MHz) Enhanced \$1,800.00  
VR-3H045-SWA200 RX, MT-3, VHF(038-050MHz) Enhanced \$1,800.00  
VR-4E150-00-000 RX, MT-4E Analog Class B, 136-174 MHz \$1,600.00  
VR-4E150-A0-000 RX, MT-4E Analog Class A 136-174 MHz \$1,800.00  
VT-3A130-SYF410 TX,MT-3/AM,118-137MHz,3W \$1,790.00  
VT-3AXXX-XXXXXXX TX, MT-3 AM \$1,790.00  
VT-3H035-SXA300 TX, MT-3, VHF(030-039), 3W \$1,600.00  
VT-3H045-SXA300 TX, MT-3, VHF(038-050),3W \$1,600.00  
VT-4E150-00-800 TX, MT-4E Analog Class A, 136-174 \$1,485.00

### CONTRACTOR INFORMATION

**Contractor:** **EF Johnson Company**

Received award for Phase I and Phase II)

**Contact:** Jessica Vo

**Alternate  
Contact:**

Lisa Beyer

**Phone:** 972-819-2394

414-460-7858

**Fax:** 972-819-2315

[lbeyer@efji.com](mailto:lbeyer@efji.com)

**Email:** [jvo@efji.com](mailto:jvo@efji.com)

**Internet address:** [www.efjohnson.com](http://www.efjohnson.com)

**Web catalog address:**

**Federal ID No.:** 41-0736849

**Supplier No.:** W1270

**Total Contract worth:** \$26,000 (estimate based on 2012 sales)

**Payment address:** EFJohnson

**Order placement  
address:**

EFJohnson

PO Box 202988

Attn: Order Admin

Dallas, TX 75320-2988

1440 Corporate Drive

Irving, TX 75038-2401

Phone 972-819-2360

Fax 972-819-2307

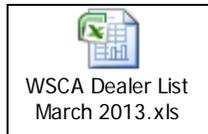
**Customer Service:** Bill Barr

**Telephone:** 972-819-0727

**Fax:** 972-819-0851

**EF Johnson Company** The list of Authorized Dealers has been updated effective June 22, 1010.

**Authorized Dealers:**



**Ordering procedures:**

**Credit card acceptance:** None

**Minimum orders:**

**Currently Installed** 20% off Manufacturer List Price

**Systems, upgrade  
equipment, radio**

**equipment and accessories**

**Support Services** \$175 per hour (effective 10/1/12)

**Installation Services** \$175 per hour (effective 10/1/12)

**Repair Services** \$175 per hour (effective 10/1/12)

**Delivery time:** Negotiated days After Receipt of Order (ARO)

**Payment terms:** 0% 30 days

**Shipping destination:** Freight on Board (FOB) destination

**Freight:** Prepaid and included

**Palletization:** N/A

**Category** Category 1

**Equipment Line items**

**Link to bid Specifications**

**Awarded Phase(s)** Phase I & II

**EF JOHNSON Phase I Price Sheet**

**DISCOUNTS ON PHASE I PRODUCTS & SERVICES**

<b>EFJOHNSON- WSCA DISCOUNT MATRIX (Revised 10/31/12)</b>	
<b>RADIO MODEL SERIES (REFER TO MANUF. PRICE PAGES):</b>	<b>DISCOUNT %</b>
<b>P25 DIGITAL MOBILE:</b>	
5300 ES Mobile	20%
53SL ES Mobile	20%
<b>P25 DIGITAL PORTABLE RADIOS:</b>	
VP900 Series Portable	20%
VP600 Series Portable	20%
5100 ES Portable	20%
51SL ES Portable	20%
<b>ANALOG MOBILES:</b>	
5300 ES Mobile	20%
53SL ES Mobile	20%
<b>ANALOG PORTABLE RADIOS:</b>	
VP600 Series Portable	20%
5100 ES Portable	20%
51SL ES Portable	20%
<b>INFRASTRUCTURE / FIXED EQUIPMENT / OTHER:</b>	
Atlas Series Equipment	20%
Asset Management Software & Services	20%
Support Services	\$225/Hr
Installation Services	\$225/Hr
Repair Services	\$225/Hr
Most services, such as engineering, program management, training, etc., are usually sold on a per man day basis, rather than an hourly basis, the daily rate is \$1,350. per Man Day (8 hours)	

Upon request and at no charge EFJohnson will provide contract customers a copy of the manufacturer's reference product price list to determine net contract price(s) after application of above discount.

### EF JOHNSON Phase I Sample Radio Configurations

The following EFJohnson radio configurations are samples of the radios that are available on the WSCA contract. Contract users should contact EF Johnson representative for other versions and frequency bands of each series of radio models.

The base model comes standard with the following features and accessories with capability to upgrade to other options.

MODEL NO.	DESCRIPTION	WSCA CONTRACT PRICE
<b>VHF FREQUENCY BAND (136 – 174 MHZ):</b>		
<b>P25 DIGITAL TRUNKED PORTABLE RADIOS:</b>		
The base model comes standard with the following features and accessories with capability to upgrade to other options.		
<b>VP600 Base model Includes:</b> 1024 Channel/Talkgroups, Backlit Front and Top dual, APCO25 Phase 2 TDMA upgrade capable, IP Submersible specification, Lilon battery pack, antenna and standard belt clip with standard 2-year warranty.		
<b>VP900 Base model Includes:</b> 2048 Channel/Talkgroups, Backlit Front and Top dual, IP Submersible specification, LiIon battery pack, antenna and standard belt clip with standard 2-year warranty.		
<b>5100 ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, <i>MIL Std. 810</i> , Black rugged housing, NiMH Battery, antenna and standard belt clip with standard 1-year warranty.		
<b>51FIRE ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, NiMH Battery Pack, FM Intrinsically Safe, Immersible IP-67, Immersion Housing, High Visibility Yellow <i>FIRE ES</i> housing, antenna and standard belt clip with standard 1-year warranty.		
<b>51SL ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, <i>MIL Std. 810</i> , Black rugged housing, NiMH Battery, antenna and standard belt clip with standard 1-year warranty.		
242-571C-653IF8	Viking VP600 Portable » Model III » 136-174 MHz » Imersion Housing » 136-174MHz Wideband Antenna » Viking LiIon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional/P25 Trunking » 1024 Channels/Talkgroups	\$2,232.00
242-571B-653IF8	Viking VP600 Portable » Model II » 136-174 MHz » Imersion Housing » 136-174MHz Wideband Antenna » Viking LiIon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional/P25 Trunking » 1024 Channels/Talkgroups	\$2,020.00
242-5AAC-A53PZ8	Viking VP900 Portable » Model III » Multi-Band 700/800 MHz + VHF » Immersion Housing » 700/800 MHz and VHF Dual Band, ½ Wave Antenna » Viking LiIon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional/P25 Trunking » 2048 Channels/Talkgroups	\$2,860.00
242-5AAA-A53PZ8	Viking VP900 Portable » Model I » Multi-Band 700/800 MHz + VHF » Immersion Housing » 700/800 MHz and VHF Dual Band, ½ Wave Antenna » Viking LiIon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional/P25 Trunking » 2048 Channels/Talkgroups	\$2,540.00
242-511C-640MW6	5100 ES Portable » Model III » VHF » 136-174 MHz Antenna » Lithium Polymer Battery Pack » Black Housing » P25 AMBE+2 » Conventional/P25 Trunking » 864 Channels/Talkgroups	\$2,444.00

242-511B-640MW6	5100 ES Portable » Model II » VHF » 136-174 MHz Antenna » Lithium Polymer Battery Pack » Black Housing » P25 AMBE+2 » Conventional/P25 Trunking » 864 Channels/Talkgroups	\$2,224.00
242-521F-674CU6	51FIRE ES » Model III » FM IS » VHF » 136-174 MHz Antenna » NiMH Battery Pack, FM IS » High Visibility Yellow Immersion Housing » P25 AMBE+2 » Conventional/P25 Trunking » 512 Channels/Talkgroups » MDC1200/GESTAR » FIRESafe Command	\$2,212.00
242-521E-674FE6	51FIRE ES » Model II » FM IS » VHF » 136-174 MHz Antenna » NiMH Battery Pack, FM IS » High Visibility Yellow Immersion Housing » P25 AMBE+2 » Conventional/P25 Trunking » 512 Channels/Talkgroups » MDC1200/GESTAR » FIRESafe First Responder	\$1,952.00
242-521B-640KA6	51SL ES Portable » Model II » VHF » 136-174 MHz Antenna » Lithium Polymer Battery Pack » Black Housing » P25 AMBE+2 » Conventional/P25 Trunking » 512 Channels/Talkgroups	\$1,552.00
<b>ACCESSORIES AND OPTIONS:</b>		
OPTION TIME OF PURCHASE ONLY	Portable Viking VP600/VP900, High Visibility Housing	\$160.00
OPTION TIME OF PURCHASE ONLY	Portable Viking VP900, Enable Internal GPS (Must include P25 Data Option)	\$80.00
587-5700-374	Viking VP600/VP900 Li-Ion Ultra-High Capacity Battery Pack, Immersion Rated	\$104.00
587-5100-373	ES NiMH Extra-High Capacity Battery Pack, Immersion Rated, FM IS	\$100.00
587-5100-374	ES Lithium Polymer Ultra-High Capacity Battery Pack, Immersion Rated	\$104.00
563-0600-235	Viking VP600/V900 Single Bay Charger	\$100.00
250-5100-315	Tri-Chemistry Charger/Conditioner with Switched Power Supply, Rapid Rate	\$120.00
589-3600-05225	Viking VP600/VP900 Speaker Microphone with Emergency button, 3.5mm, Jack, 25"	\$120.00
589-0015-057	ES Speaker Microphone (Intrinsically Safe)	\$104.00
508-4600-611	Viking VP600 Leather Case with Belt Loop, Model II	\$56.00
508-4600-612	Viking VP600/VP900 Leather Case with 3" D-Swivel Belt Loop, Model III	\$56.00
585-5100-14010	ES Leather Case with 3" D-Swivel Belt Loop, Model I and II	\$56.00
585-5100-14012	ES Leather Case with 3" D-Swivel Belt Loop, Model III	\$56.00
	<i>See Price Pages for complete accessories and options</i>	
<b>P25 DIGITAL TRUNKED MOBILE RADIOS:</b>		
The base model comes standard with the following features and accessories with capability to upgrade to other options.		
<b>53SL ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, Electronic Tilt Display, LCD display, with standard 1-year warranty.		
<b>5300 ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, Electronic Tilt Display, LCD display, with standard 1-year warranty.		
242-531G-20A-AFAN6	5300 ES Mobile » Dash Mount » VHF 50 Watt » Lightning Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional / P25 Trunking » 864 Channels/Talkgroups	\$3,624.00

242-531G-201-AFAN6	5300 ES Mobile » Dash Mount » VHF 50 Watt » Basic Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional / P25 Trunking » 864 Channels/Talkgroups	\$3,008.00
242-541G-20A-AFAB6	53SL ES Mobile » Dash Mount » VHF 50 Watt » Lightning Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional / P25 Trunking » 512 Channels/Talkgroups	\$2,940.00
242-541G-201-AFAB6	53SL ES Mobile » Dash Mount » VHF 50 Watt » Basic Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional / P25 Trunking » 512 Channels/Talkgroups	\$2,324.00
<b>ACCESSORIES AND OPTIONS:</b>		
250-5300-002	5300 ES Remote Control Head Conversion Kit, Single or Dual (Includes ES remote shroud with blank faceplate, mounting bracket, 17' remote cable, and single / remote accessory cable)	\$380.00
501-0012-001	VHF & UHF tunable 1/4 wave whip roof-mount antenna with "N" connector (No adapter required)	\$44.00
250-4001-202	15 amp 120V Power Supply with cabinet and radio power cable	\$236.00
	<i>See Price Pages for complete accessories and options</i>	
<b>P25 DIGITAL CONVENTIONAL PORTABLE RADIOS:</b>		
The base model comes standard with the following features and accessories with capability to upgrade to other options.		
<b>VP600 Base model Includes:</b> 1024 Channel/Talkgroups, Backlit Front and Top dual, APCO25 Phase 2 TDMA upgrade capable, IP Submersible specification, Lilon battery pack, antenna and standard belt clip with standard 2-year warranty.		
<b>VP900 Base model Includes:</b> 2048 Channel/Talkgroups, Backlit Front and Top dual, IP Submersible specification, LiIon battery pack, antenna and standard belt clip with standard 2-year warranty.		
<b>5100 ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, <i>MIL Std. 810</i> , Black rugged housing, NiMH Battery, antenna and standard belt clip with standard 1-year warranty.		
<b>51FIRE ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, NiMH Battery Pack, FM Intrinsically Safe, Immersible IP-67, Immersion Housing, High Visibility Yellow <i>FIRE ES</i> housing, antenna and standard belt clip with standard 1-year warranty.		
<b>51SL ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, <i>MIL Std. 810</i> , Black rugged housing, NiMH Battery, antenna and standard belt clip with standard 1-year warranty.		
242-571C-653MV8	Viking VP600 Portable » Model III » 136-174 MHz » Imersion Housing » 136-174 MHz Wideband Antenna » Viking LiIon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional » 1024 Channels/Talkgroups	\$2,120.00
242-571B-653MV8	Viking VP600 Portable » Model II » 136-174 MHz » Imersion Housing » 136-174 MHz Wideband Antenna » Viking LiIon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional » 1024 Channels/Talkgroups	\$1,920.00
242-5AAC-A53QG8	Viking VP900 Portable » Model III » Multi-Band 700/800 MHz + VHF » Immersion Housing » 700/800 MHz and VHF Dual Band, ½ Wave Antenna » Viking LiIon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional » 2048 Channels/Talkgroups	\$2,760.00
242-5AAA-A53QG8	Viking VP900 Portable » Model I » Multi-Band 700/800 MHz + VHF » Immersion Housing » 700/800 MHz and VHF Dual Band, ½ Wave Antenna » Viking LiIon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional » 2048 Channels/Talkgroups	\$2,440.00
242-511C-640MU6	5100 ES Portable » Model III » VHF » 136-174 MHz Antenna » Lithium Polymer Battery Pack » Black Housing » P25 AMBE+2 » Conventional System » 864 Channels/Talkgroups	\$2,344.00

242-511CB-640MU6	5100 ES Portable » Model II » VHF » 136-174 MHz Antenna » Lithium Polymer Battery Pack » Black Housing » P25 AMBE+2 » Conventional System » 864 Channels/Talkgroups	\$2,124.00
242-521F-674MX6	51FIRE ES » Model III » FM IS » VHF » 136-174 MHz Antenna » NiMH Battery Pack, FM IS » High Visibility Yellow Immersion Housing » P25 AMBE+2 » Conventional System » 512 Channels/Talkgroups » MDC1200/GESTAR » FIRESafe Command	\$2,112.00
242-521E-674MY6	51FIRE ES » Model II » FM IS » VHF » 136-174 MHz Antenna » NiMH Battery Pack, FM IS » High Visibility Yellow Immersion Housing » P25 AMBE+2 » Conventional System » 512 Channels/Talkgroups » MDC1200/GESTAR » FIRESafe First Responder	\$1,852.00
242-521B-640BC6	51SL ES Portable » Model II » VHF » 136-174 MHz Antenna » Lithium Polymer Battery Pack » Black Housing » P25 AMBE+2 » Conventional System » 512 Channels/Talkgroups	\$1,452.00
<b>ACCESSORIES AND OPTIONS:</b>		
OPTION TIME OF PURCHASE ONLY	Portable Viking VP600/VP900, High Visibility Housing	\$160.00
OPTION TIME OF PURCHASE ONLY	Portable Viking VP900, Enable Internal GPS (Must include P25 Data Option)	\$80.00
587-5700-374	Viking VP600/VP900 Li-Ion Ultra-High Capacity Battery Pack, Immersion Rated	\$104.00
587-5100-373	ES NiMH Extra-High Capacity Battery Pack, Immersion Rated, FM IS	\$100.00
587-5100-374	ES Lithium Polymer Ultra-High Capacity Battery Pack, Immersion Rated	\$104.00
563-0600-235	Viking VP600/VP900 Single Bay Charger	\$100.00
250-5100-315	Tri-Chemistry Charger/Conditioner with Switched Power Supply, Rapid Rate	\$120.00
589-3600-05225	Viking VP600/VP900 Speaker Microphone with Emergency button, 3.5mm, Jack, 25"	\$120.00
589-0015-057	ES Speaker Microphone (Intrinsically Safe)	\$104.00
508-4600-611	Viking VP600 Leather Case with Belt Loop, Model II	\$56.00
508-4600-612	Viking VP600/VP900 Leather Case with 3" D-Swivel Belt Loop, Model III	\$56.00
585-5100-14010	ES Leather Case with 3" D-Swivel Belt Loop, Model I and II	\$56.00
585-5100-14012	ES Leather Case with 3" D-Swivel Belt Loop, Model III	\$56.00
	<i>See Price Pages for complete accessories and options</i>	
<b>P25 DIGITAL CONVENTIONAL MOBILE RADIOS:</b>		
The base model comes standard with the following features and accessories with capability to upgrade to other options.		
<b>53SL ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, Electronic Tilt Display, LCD display, with standard 1-year warranty.		
<b>5300 ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, Electronic Tilt Display, LCD display, with standard 1-year warranty.		
242-531G-20A-AAAN6	5300 ES Mobile » Dash Mount » VHF 50 Watt » Lightning Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional System » 864 Channels/Talkgroups	\$3,344.00

242-531G-201-AAAN6	5300 ES Mobile » Dash Mount » VHF 50 Watt » Basic Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional System » 864 Channels/Talkgroups	\$2,728.00
242-541G-20A-AAAB6	53SL ES Mobile » Dash Mount » VHF 50 Watt » Lightning Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional System » 512 Channels/Talkgroups	\$2,760.00
242-541G-201-AAAB6	53SL ES Mobile » Dash Mount » VHF 50 Watt » Basic Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional System » 512 Channels/Talkgroups	\$2,144.00
<b>ACCESSORIES AND OPTIONS:</b>		
250-5300-002	5300 ES Remote Control Head Conversion Kit, Single or Dual (Includes ES remote shroud with blank faceplate, mounting bracket, 17' remote cable, and single / remote accessory cable)	\$380.00
501-0012-001	VHF & UHF tunable 1/4 wave whip roof-mount antenna with "N" connector (No adapter required)	\$44.00
250-4001-202	15 amp 120V Power Supply with cabinet and radio power cable	\$236.00
	<i>See Price Pages for complete accessories and options</i>	
<b>UHF FREQUENCY BAND (380-470 MHz):</b>		
<b>P25 DIGITAL TRUNKED PORTABLE RADIOS:</b>		
The base model comes standard with the following features and accessories with capability to upgrade to other options.		
<b>VP600 Base model Includes:</b> 1024 Channel/Talkgroups, Backlit Front and Top dual, APCO25 Phase 2 TDMA upgrade capable, IP Submersible specification, Lilon battery pack, antenna and standard belt clip with standard 2-year warranty.		
<b>5100 ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, <i>MIL Std. 810</i> , Black rugged housing, NiMH Battery, antenna and standard belt clip with standard 1-year warranty.		
<b>51FIRE ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, NiMH Battery Pack, FM Intrinsically Safe, Immersible IP-67, Immersion Housing, High Visibility Yellow <i>FIRE ES</i> housing, antenna and standard belt clip with standard 1-year warranty.		
<b>51SL ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, <i>MIL Std. 810</i> , Black rugged housing, NiMH Battery, antenna and standard belt clip with standard 1-year warranty.		
242-572C-453IF8	Viking VP600 Portable » Model III » 380-470 MHz » Imersion Housing » 380-470 MHz Antenna » Viking Lilon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional/P25 Trunking » 1024 Channels/Talkgroups	\$2,220.00
242-572B-453IF8	Viking VP600 Portable » Model II » 380-470 MHz » Imersion Housing » 380-470 MHz Antenna » Viking Lilon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional/P25 Trunking » 1024 Channels/Talkgroups	\$2,020.00
242-512C-440MW6	5100 ES Portable » Model III » UHF R1 » 380-520 MHz Antenna » Lithium Polymer Battery Pack » Black Housing » P25 AMBE+2 » Conventional/P25 Trunking » 864 Channels/Talkgroups	\$2,432.00
242-512B-440MW6	5100 ES Portable » Model II » UHF R1 » 380-520 MHz Antenna » Lithium Polymer Battery Pack » Black Housing » P25 AMBE+2 » Conventional/P25 Trunking » 864 Channels/Talkgroups	\$2,212.00

242-522F-474CU6	51FIRE ES » Model III » FM IS » UHF R1 » 380-520 MHz Antenna » NiMH Battery Pack, FM IS » High Visibility Yellow Immersion Housing » P25 AMBE+2 » Conventional/P25 Trunking » 512 Channels/Talkgroups » MDC1200/GESTAR » FIRESafe Command	\$2,200.00
242-522E-474FE6	51FIRE ES » Model II » FM IS » UHF R1 » 380-520 MHz Antenna » NiMH Battery Pack, FM IS » High Visibility Yellow Immersion Housing » P25 AMBE+2 » Conventional/P25 Trunking » 512 Channels/Talkgroups » MDC1200/GESTAR » FIRESafe First Responder	\$1,940.00
242-522B-440KA6	51SL ES Portable » Model II » UHF R1 » 380-520 MHz Antenna » Lithium Polymer Battery Pack » Black Housing » P25 AMBE+2 » Conventional/P25 Trunking » 512 Channels/Talkgroups	\$1,540.00
<b>ACCESSORIES AND OPTIONS:</b>		
OPTION TIME OF PURCHASE ONLY	Portable Viking VP600/VP900, High Visibility Housing	\$160.00
587-5700-374	Viking VP600 Li-Ion Ultra-High Capacity Battery Pack, Immersion Rated	\$104.00
587-5100-373	ES NiMH Extra-High Capacity Battery Pack, Immersion Rated, FM IS	\$100.00
587-5100-374	ES Lithium Polymer Ultra-High Capacity Battery Pack, Immersion Rated	\$104.00
563-0600-235	Viking VP600 Single Bay Charger	\$100.00
250-5100-315	Tri-Chemistry Charger/Conditioner with Switched Power Supply, Rapid Rate	\$120.00
589-3600-05225	Viking VP600 Speaker Microphone with Emergency button, 3.5mm, Jack, 25"	\$120.00
589-0015-057	ES Speaker Microphone (Intrinsically Safe)	\$104.00
508-4600-611	Viking VP600 Leather Case with Belt Loop, Model II	\$56.00
508-4600-612	Viking VP600 Leather Case with 3" D-Swivel Belt Loop, Model III	\$56.00
585-5100-14010	ES Leather Case with 3" D-Swivel Belt Loop, Model I and II	\$56.00
585-5100-14012	ES Leather Case with 3" D-Swivel Belt Loop, Model III	\$56.00
	<i>See Price Pages for complete accessories and options</i>	
<b>P25 DIGITAL TRUNKED MOBILE RADIOS:</b>		
The base model comes standard with the following features and accessories with capability to upgrade to other options.		
<b>53SL ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, Electronic Tilt Display, LCD display, with standard 1-year warranty.		
<b>5300 ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, Electronic Tilt Display, LCD display, with standard 1-year warranty.		
242-536C-20A-AFAN6	5300 ES Mobile » Dash Mount » UHF » Lightning Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional / P25 Trunking » 864 Channels/Talkgroups	\$3,736.00
242-536C-201-AFAN6	5300 ES Mobile » Dash Mount » UHF » Basic Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional / P25 Trunking » 864 Channels/Talkgroups	\$3,120.00

242-546C-20A-AFAB6	53SL ES Mobile » Dash Mount » UHF » Lightning Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional / P25 Trunking » 512 Channels/Talkgroups	\$3,052.00
242-546C-201-AFAB6	53SL ES Mobile » Dash Mount » UHF » Basic Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional / P25 Trunking » 512 Channels/Talkgroups	\$2,436.00
<b>ACCESSORIES AND OPTIONS:</b>		
250-5300-002	5300 ES Remote Control Head Conversion Kit, Single or Dual (Includes ES remote shroud with blank faceplate, mounting bracket, 17' remote cable, and single / remote accessory cable)	\$380.00
501-0012-001	VHF & UHF tunable 1/4 wave whip roof-mount antenna with "N" connector (No adapter required)	\$44.00
250-4001-202	15 amp 120V Power Supply with cabinet and radio power cable	\$236.00
	<i>See Price Pages for complete accessories and options</i>	
<b>P25 DIGITAL CONVENTIONAL PORTABLE RADIOS:</b>		
The base model comes standard with the following features and accessories with capability to upgrade to other options.		
<p><b>5100 ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, <i>MIL Std. 810</i>, Black rugged housing, NiMH Battery, antenna and standard belt clip with standard 1 year warranty.</p> <p><b>51SL ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, <i>MIL Std. 810</i>, Black rugged housing, NiMH Battery, antenna and standard belt clip with standard 1 year warranty.</p> <p><b>51FIRE ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, NiMH Battery Pack, FM Intrinsically Safe, Immersible IP-67, Immersion Housing, High Visibility Yellow <i>FIRE ES</i> housing, antenna and standard belt clip with standard 1 year warranty.</p> <p><b>VP600 Base model Includes:</b> 1024 Channel/Talkgroups, Backlit Front and Top dual display (all models come with top display, APCO25 Phase 2 TDMA upgrade capable, IP Submersible specification, standard two year warranty, Lilon battery pack, antenna and standard belt clip with standard 2 year warranty.</p>		
242-572C-453MV8	Viking VP600 Portable » Model III » 380-470MHZ MHz » Imersion Housing » 380-470 MHz Antenna » Viking LiIon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional » 1024 Channels/Talkgroups	\$2,120.00
242-572B-453MV8	Viking VP600 Portable » Model II » 380-470MHZ MHz » Imersion Housing » 380-470 MHz Antenna » Viking LiIon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional » 1024 Channels/Talkgroups	\$1,920.00
242-512C-440MU6	5100 ES Portable » Model III » UHF R1 » 380-470 MHz Antenna » Lithium Polymer Battery Pack » Black Housing » P25 AMBE+2 » Conventional System » 864 Channels/Talkgroups	\$2,332.00
242-512B-440BC6	5100 ES Portable » Model II » UHF R1 » 380-520 MHz Antenna » Lithium Polymer Battery Pack » Black Housing » P25 AMBE+2 » Conventional System » 512 Channels/Talkgroups	\$1,912.00
242-522F-474MX6	51FIRE ES » Model III » FM IS » UHF R1 » 380-520 MHz Antenna » NiMH Battery Pack, FM IS » High Visibility Yellow Immersion Housing » P25 AMBE+2 » Conventional System » 512 Channels/Talkgroups » MDC1200/GESTAR » FIRESafe Command	\$2,100.00
242-522E-474MY6	51FIRE ES » Model II » FM IS » UHF R1 » 380-520 MHz Antenna » NiMH Battery Pack, FM IS » High Visibility Yellow Immersion Housing » P25 AMBE+2 » Conventional System » 512 Channels/Talkgroups » MDC1200/GESTAR » FIRESafe First Responder	\$2,020.00

242-522B-440BC6	51SL ES Portable » Model II » UHF R1 » 380-520 MHz Antenna » Lithium Polymer Battery Pack » Black Housing » P25 AMBE+2 » Conventional System » 512 Channels/Talkgroups	\$1,468.00
<b>ACCESSORIES AND OPTIONS:</b>		
OPTION TIME OF PURCHASE ONLY	Portable Viking VP600/VP900, High Visibility Housing	\$160.00
587-5700-374	Viking VP600 Li-Ion Ultra-High Capacity Battery Pack, Immersion Rated	\$104.00
587-5100-373	ES NiMH Extra-High Capacity Battery Pack, Immersion Rated, FM IS	\$100.00
587-5100-374	ES Lithium Polymer Ultra-High Capacity Battery Pack, Immersion Rated	\$104.00
563-0600-235	Viking VP600 Single Bay Charger	\$100.00
250-5100-315	Tri-Chemistry Charger/Conditioner with Switched Power Supply, Rapid Rate	\$120.00
589-3600-05225	Viking VP600 Speaker Microphone with Emergency button, 3.5mm, Jack, 25"	\$120.00
589-0015-057	ES Speaker Microphone (Intrinsically Safe)	\$104.00
508-4600-611	Viking VP600 Leather Case with Belt Loop, Model II	\$56.00
508-4600-612	Viking VP600 Leather Case with 3" D-Swivel Belt Loop, Model III	\$56.00
585-5100-14010	ES Leather Case with 3" D-Swivel Belt Loop, Model I and II	\$56.00
585-5100-14012	ES Leather Case with 3" D-Swivel Belt Loop, Model III	\$56.00
	<i>See Price Pages for complete accessories and options</i>	
<b>P25 DIGITAL CONVENTIONAL MOBILE RADIOS:</b>		
<b>53SL ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, Electronic Tilt Display, LCD display, with standard 1-year warranty.		
<b>5300 ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, Electronic Tilt Display, LCD display, with standard 1-year warranty.		
242-536C-20A-AAAN6	5300 ES Mobile » Dash Mount » UHF » Lightning Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional System » 864 Channels/Talkgroups	\$3,456.00
242-536C-201-AAAN6	5300 ES Mobile » Dash Mount » UHF » Basic Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional System » 864 Channels/Talkgroups	\$2,840.00
242-546C-20A-AAAB6	53SL ES Mobile » Dash Mount » UHF » Lightning Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional System » 512 Channels/Talkgroups	\$2,872.00
242-546C-201-AAAB6	53SL ES Mobile » Dash Mount » UHF » Basic Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional System » 512 Channels/Talkgroups	\$2,256.00
<b>ACCESSORIES AND OPTIONS:</b>		
250-5300-002	5300 ES Remote Control Head Conversion Kit, Single or Dual (Includes ES remote shroud with blank faceplate, mounting bracket, 17' remote cable, and single / remote accessory cable)	\$380.00
501-0012-001	VHF & UHF tunable 1/4 wave whip roof-mount antenna with "N" connector (No adapter required)	\$44.00
250-4001-202	15 amp 120V Power Supply with cabinet and radio power cable	\$236.00

<i>See Price Pages for complete accessories and options</i>		
<b>7/800 FREQUENCY BAND (764 – 870 MHZ):</b>		
<b>P25 DIGITAL TRUNKED PORTABLE RADIOS:</b>		
The base model comes standard with the following features and accessories with capability to upgrade to other options.		
<b>VP600 Base model Includes:</b> 1024 Channel/Talkgroups, Backlit Front and Top dual, APCO25 Phase 2 TDMA upgrade capable, IP Submersible specification, Lilon battery pack, antenna and standard belt clip with standard 2-year warranty.		
<b>VP900 Base model Includes:</b> 2048 Channel/Talkgroups, Backlit Front and Top dual, IP Submersible specification, LiIon battery pack, antenna and standard belt clip with standard 2-year warranty.		
<b>5100 ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, <i>MIL Std. 810</i> , Black rugged housing, NiMH Battery, antenna and standard belt clip with standard 1-year warranty.		
<b>51FIRE ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, NiMH Battery Pack, FM Intrinsically Safe, Immersible IP-67, Immersion Housing, High Visibility Yellow <i>FIRE ES</i> housing, antenna and standard belt clip with standard 1-year warranty.		
<b>51SL ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, <i>MIL Std. 810</i> , Black rugged housing, NiMH Battery, antenna and standard belt clip with standard 1-year warranty.		
242-577C-853IF8	Viking VP600 Portable » Model III » 700/800 MHz » Imersion Housing » 700/800 MHz Half Wave Antenna » Viking LiIon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional/P25 Trunking » 1024 Channels/Talkgroups	\$2,220.00
242-577B-853IF8	Viking VP600 Portable » Model II » 700/800 MHz » Imersion Housing » 700/800 MHz Half Wave Antenna » Viking LiIon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional/P25 Trunking » 1024 Channels/Talkgroups	\$2,020.00
242-5AAC-A53PZ8	Viking VP900 Portable » Model III » Multi-Band 700/800 MHz + VHF » Immersion Housing » 700/800 MHz and VHF Dual Band, ½ Wave Antenna » Viking LiIon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional/P25 Trunking » 2048 Channels/Talkgroups	\$2,860.00
242-5AAA-A53PZ8	Viking VP900 Portable » Model I » Multi-Band 700/800 MHz + VHF » Immersion Housing » 700/800 MHz and VHF Dual Band, ½ Wave Antenna » Viking LiIon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional/P25 Trunking » 2048 Channels/Talkgroups	\$2,540.00
242-517C-840MW6	5100 ES Portable » Model III » 700/800 MHz » 700/800 MHz Half Wave Antenna » Lithium Polymer Battery Pack » Black Housing » P25 AMBE+2 » Conventional/P25 Trunking » 864 Channels/Talkgroups	\$2,432.00
242-517B-840MW6	5100 ES Portable » Model II » 700/800 MHz » 700/800 MHz Half Wave Antenna » Lithium Polymer Battery Pack » Black Housing » P25 AMBE+2 » Conventional/P25 Trunking » 864 Channels/Talkgroups	\$2,212.00
242-527F-874CU6	51FIRE ES » Model III » FM IS » 700/800 MHz » 700/800 MHz Half Wave Antenna » NiMH Battery Pack, FM IS » High Visibility Yellow Immersion Housing » P25 AMBE+2 » Conventional/P25 Trunking » 512 Channels/Talkgroups » MDC1200/GESTAR » FIRESafe Command	\$2,200.00

242-527E-874FE6	51FIRE ES » Model II » FM IS » 700/800 MHz » 700/800 MHz Half Wave Antenna » NiMH Battery Pack, FM IS » High Visibility Yellow Immersion Housing » P25 AMBE+2 » Conventional/P25 Trunking » 512 Channels/Talkgroups » MDC1200/GESTAR » FIRESafe First Responder	\$1,940.00
242-527B-840KA6	51SL ES Portable » Model II » 700/800 MHz » 700/800 MHz Half Wave Antenna » Lithium Polymer Battery Pack » Black Housing » P25 AMBE+2 » Conventional/P25 Trunking » 512 Channels/Talkgroups	\$1,568.00
<b>ACCESSORIES AND OPTIONS:</b>		
OPTION TIME OF PURCHASE ONLY	Portable Viking VP600/VP900, High Visibility Housing	\$160.00
OPTION TIME OF PURCHASE ONLY	Portable Viking VP900, Enable Internal GPS (Must include P25 Data Option)	\$80.00
587-5700-374	Viking VP600/VP900 Li-Ion Ultra-High Capacity Battery Pack, Immersion Rated	\$104.00
587-5100-373	ES NiMH Extra-High Capacity Battery Pack, Immersion Rated, FM IS	\$100.00
587-5100-374	ES Li-Ion Ultra-High Capacity Battery Pack, Immersion Rated	\$104.00
563-0600-235	Viking VP600/VP900 Single Bay Charger	\$100.00
250-5100-315	Tri-Chemistry Charger/Conditioner with Switched Power Supply, Rapid Rate	\$120.00
589-3600-05225	Viking VP600/VP900 Speaker Microphone with Emergency button, 3.5mm, Jack, 25"	\$120.00
589-0015-057	ES Speaker Microphone (Intrinsically Safe)	\$104.00
508-4600-611	Viking VP600 Leather Case with Belt Loop, Model II	\$56.00
508-4600-612	Viking VP600/VP900 Leather Case with 3" D-Swivel Belt Loop, Model III	\$56.00
585-5100-14010	ES Leather Case with 3" D-Swivel Belt Loop, Model I and II	\$56.00
585-5100-14012	ES Leather Case with 3" D-Swivel Belt Loop, Model III	\$56.00
	<i>See Price Pages for complete accessories and options</i>	
<b>P25 DIGITAL TRUNKED MOBILE RADIOS:</b>		
The base model comes standard with the following features and accessories with capability to upgrade to other options.		
<b>53SL ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, Electronic Tilt Display, LCD display, with standard 1-year warranty.		
<b>5300 ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, Electronic Tilt Display, LCD display, with standard 1-year warranty.		
242-537G-20A-AFAN6	5300 ES Mobile » Dash Mount » 700/800 MHz » Lightning Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional / P25 Trunking » 864 Channels/Talkgroups	\$3,624.00
242-537G-201-AFAN6	5300 ES Mobile » Dash Mount » 700/800 MHz » Basic Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional / P25 Trunking » 864 Channels/Talkgroups	\$3,008.00
242-547G-20A-AFAB6	53SL ES Mobile » Dash Mount » 700/800 MHz » Lightning Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional / P25 Trunking » 512 Channels/Talkgroups	\$2,940.00

242-547G-201-AFAB6	53SL ES Mobile » Dash Mount » 700/800 MHz » Basic Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional / P25 Trunking » 512 Channels/Talkgroups	\$2,324.00
<b>ACCESSORIES AND OPTIONS:</b>		
250-5300-002	5300 ES Remote Control Head Conversion Kit, Single or Dual (Includes ES remote shroud with blank faceplate, mounting bracket, 17' remote cable, and single / remote accessory cable)	\$380.00
501-0012-001	VHF & UHF tunable 1/4 wave whip roof-mount antenna with "N" connector (No adapter required)	\$44.00
250-4001-202	15 amp 120V Power Supply with cabinet and radio power cable	\$236.00
	<i>See Price Pages for complete accessories and options</i>	
<b>P25 DIGITAL CONVENTIONAL PORTABLE RADIOS:</b>		
The base model comes standard with the following features and accessories with capability to upgrade to other options.		
<p><b>VP600 Base model Includes:</b> 1024 Channel/Talkgroups, Backlit Front and Top dual, APCO25 Phase 2 TDMA upgrade capable, IP Submersible specification, Lilon battery pack, antenna and standard belt clip with standard 2-year warranty.</p> <p><b>VP900 Base model Includes:</b> 2048 Channel/Talkgroups, Backlit Front and Top dual, IP Submersible specification, LiIon battery pack, antenna and standard belt clip with standard 2-year warranty.</p> <p><b>5100 ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, <i>MIL Std. 810</i>, Black rugged housing, NiMH Battery, antenna and standard belt clip with standard 1-year warranty.</p> <p><b>51FIRE ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, NiMH Battery Pack, FM Intrinsically Safe, Immersible IP-67, Immersion Housing, High Visibility Yellow <i>FIRE ES</i> housing, antenna and standard belt clip with standard 1-year warranty.</p> <p><b>51SL ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, <i>MIL Std. 810</i>, Black rugged housing, NiMH Battery, antenna and standard belt clip with standard 1-year warranty.</p>		
242-577C-853MV8	Viking VP600 Portable » Model III » 700/800 MHz » Imersion Housing » 700/800 MHz Half Wave Antenna » Viking LiIon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional » 1024 Channels/Talkgroups	\$2,120.00
242-577B-853MV8	Viking VP600 Portable » Model II » 700/800 MHz » Imersion Housing » 700/800 MHz Half Wave Antenna » Viking LiIon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional » 1024 Channels/Talkgroups	\$1,920.00
242-5AAC-A53QG8	Viking VP900 Portable » Model III » Multi-Band 700/800 MHz + VHF » Immersion Housing » 700/800 MHz and VHF Dual Band, ½ Wave Antenna » Viking LiIon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional » 2048 Channels/Talkgroups	\$2,760.00
242-5AAA-A53QG8	Viking VP900 Portable » Model I » Multi-Band 700/800 MHz + VHF » Immersion Housing » 700/800 MHz and VHF Dual Band, ½ Wave Antenna » Viking LiIon Battery Pack » Black Housing » P25 CAI AMBE+2 » Conventional » 2048 Channels/Talkgroups	\$2,440.00
242-517C-840MU6	5100 ES Portable » Model III » 700/800 MHz » 700/800 MHz Half Wave Antenna » Lithium Polymer Battery Pack » Black Housing » P25 AMBE+2 » Conventional System » 864 Channels/Talkgroups	\$2,332.00
242-517B-840MU6	5100 ES Portable » Model II » 700/800 MHz » 700/800 MHz Half Wave Antenna » Lithium Polymer Battery Pack » Black Housing » P25 AMBE+2 » Conventional System » 864 Channels/Talkgroups	\$2,112.00
242-527F-874MX6	51FIRE ES » Model III » FM IS » 700/800 MHz » 700/800 MHz Half Wave Antenna » NiMH Battery Pack, FM IS » High Visibility Yellow Immersion Housing » P25 AMBE+2 » Conventional System » 512 Channels/Talkgroups » MDC1200/GESTAR » FIRESafe	\$2,100.00

	Command	
242-527E-874MY6	51FIRE ES » Model II » FM IS » 700/800 MHz » 700/800 MHz Half Wave Antenna » NiMH Battery Pack, FM IS » High Visibility Yellow Immersion Housing » P25 AMBE+2 » Conventional System » 512 Channels/Talkgroups » MDC1200/GESTAR » FIRESafe First Responder	\$1,840.00
242-527B-840BC6	51SL ES Portable » Model II » 700/800 MHz » 700/800 MHz Half Wave Antenna » Lithium Polymer Battery Pack » Black Housing » P25 AMBE+2 » Conventional System » 512 Channels/Talkgroups	\$1,468.00
<b>ACCESSORIES AND OPTIONS:</b>		
OPTION TIME OF PURCHASE ONLY	Portable Viking VP600/VP900, High Visibility Housing	\$160.00
OPTION TIME OF PURCHASE ONLY	Portable Viking VP900, Enable Internal GPS (Must include P25 Data Option)	\$80.00
587-5700-374	Viking VP600/VP900 Li-Ion Ultra-High Capacity Battery Pack, Immersion Rated	\$104.00
587-5100-373	ES NiMH Extra-High Capacity Battery Pack, Immersion Rated, FM IS	\$100.00
587-5100-374	ES Lithium Polymer Ultra-High Capacity Battery Pack, Immersion Rated	\$104.00
563-0600-235	Viking VP600/VP900 Single Bay Charger	\$100.00
250-5100-315	Tri-Chemistry Charger/Conditioner with Switched Power Supply, Rapid Rate	\$104.00
589-3600-05225	Viking VP600/VP900 Speaker Microphone with Emergency button, 3.5mm, Jack, 25"	\$120.00
589-0015-057	ES Speaker Microphone (Intrinsically Safe)	\$104.00
508-4600-611	Viking VP600 Leather Case with Belt Loop, Model II	\$56.00
508-4600-612	Viking VP600/VP900 Leather Case with 3" D-Swivel Belt Loop, Model III	\$56.00
585-5100-14010	ES Leather Case with 3" D-Swivel Belt Loop, Model I and II	\$56.00
585-5100-14012	ES Leather Case with 3" D-Swivel Belt Loop, Model III	\$56.00
	<i>See Price Pages for complete accessories and options</i>	
<b>P25 DIGITAL CONVENTIONAL MOBILE RADIOS:</b>		
The base model comes standard with the following features and accessories with capability to upgrade to other options.		
<b>53SL ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, Electronic Tilt Display, LCD display, with standard 1-year warranty.		
<b>5300 ES Base model Includes:</b> Analog conventional mode, 512 Channel/Talkgroups, Electronic Tilt Display, LCD display, with standard 1-year warranty.		
242-537G-20A-AAAN6	5300 ES Mobile » Dash Mount » 700/800 MHz » Lightning Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional System » 864 Channels/Talkgroups	\$3,344.00
242-537G-201-AAAN6	5300 ES Mobile » Dash Mount » 700/800 MHz » Basic Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional System » 864 Channels/Talkgroups	\$2,728.00

242-547G-20A-AAAB6	53SL ES Mobile » Dash Mount » 700/800 MHz » Lightning Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional System » 512 Channels/Talkgroups	\$2,760.00
242-547G-201-AAAB6	53SL ES Mobile » Dash Mount » 700/800 MHz » Basic Control Head w/ Palm Mic » Accessory Cable » P25 AMBE+2 » Conventional System » 512 Channels/Talkgroups	\$2,144.00
<b>ACCESSORIES AND OPTIONS:</b>		
250-5300-002	5300 ES Remote Control Head Conversion Kit, Single or Dual (Includes ES remote shroud with blank faceplate, mounting bracket, 17' remote cable, and single / remote accessory cable)	\$380.00
501-0012-001	VHF & UHF tunable 1/4 wave whip roof-mount antenna with "N" connector (No adapter required)	\$44.00
250-4001-202	15 amp 120V Power Supply with cabinet and radio power cable	\$236.00
	<i>See Price Pages for complete accessories and options</i>	

**EF JOHNSON Phase II Price Sheet**

<b>ITEM</b>	<b>Mfg Name</b>	<b>Brand/Model#</b>	<b>Total Price</b>
<b>Portable Analog</b>			
High VHF 136-174 Quality Category A	EF Johnson	242-521E-674AC6	\$1,492.00
High VHF 136-174 Quality Category B	EF Johnson	242-521B-630AA6	\$1,412.00
UHF 450-470 Quality Category A	EF Johnson	242-522E-474AC6	\$1,480.00
UHF 450-470 Quality Category B	EF Johnson	242-522B-430AA6	\$1,400.00
UHF 450-470 Category D	EF Johnson	242-522A-430AG6	\$1,140.00
UHF 806-870 Quality Category A	EF Johnson	242-527E-874AC6	\$1,480.00
UHF 806-870 Quality Category B	EF Johnson	242-527B-830AA6	\$1,400.00
UHF 806-870 Quality Category C	EF Johnson	242-527B-830AA6	\$1,400.00
UHF 806-870 Quality Category D	EF Johnson	242-527A-830AG6	\$1,140.00
<b>Desktop Analog</b>			
Not Available	EF Johnson	Discontinued	N/A
Not Available	EF Johnson	Discontinued	N/A
<b>Mobile Analog</b>			
High VHF 136-174 Quality Category B	EF Johnson	242-541G-801-AAAB6	\$1,864.00
High VHF 136-174 Category C	EF Johnson	242-541G-801-AAAH6	\$1,744.00
High VHF 136-174 Category D	EF Johnson	242-541G-801-AAAL6	\$1,664.00
UHF 806-870 Quality Category C	EF Johnson	Discontinued	N/A
UHF 806-870 Quality Category D	EF Johnson	Discontinued	N/A
<b>Remote Base/Repeater Station Analog</b>			
High VHF-136-174 Quality Category A	EF Johnson	242-521E-674BW6	\$1,652.00
High VHF-136-174 Quality Category B	EF Johnson	242-521B-630BC6	\$1,452.00
High VHF-136-174 Quality Category C	EF Johnson	242-521B-630BC6	\$1,452.00
High VHF 136-174 Category D	EF Johnson	242-521A-630BZ6	\$1,192.00
	EF Johnson	242-522E-474BW6	\$1,640.00
<b>Error! Reference source not found.</b>	EF Johnson	242-522B-430BC6	\$1,440.00
<b>Error! Reference source not found.</b>	EF Johnson	242-522B-430BC6	\$1,440.00

ITEM	Mfg Name	Brand/Model#	Total Price
<b>Error! Reference source not found.</b>	EF Johnson	242-522A-30BZ6	\$1,180.00
<b>Error! Reference source not found.</b>	EF Johnson	242-527E-874BW6	\$1,640.00
<b>Error! Reference source not found.</b>	EF Johnson	242-527B-830BC6	\$1,440.00
<b>Error! Reference source not found.</b>	EF Johnson	242-527B-8302BC6	\$1,440.00
UHF 806-870 Cateogry D	EF Johnson	242-527A-830BZ6	\$1,180.00
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<b>Error! Reference source not found.</b>	EF Johnson	242-541G-20V-AAAL6+PSDM	\$2,224.00
<b>Error! Reference source not found.</b>	EF Johnson	242-547G-20V-AAAH6+PSDM	\$2,196.00
<b>Error! Reference source not found.</b>	EF Johnson	242-547G-20V-AAAL6+PSDM	\$2,116.00
<b>Mobile Digital</b>			
High VHF 136-174 Quality Category C	EF Johnson	242-541G-201-AAAH6	\$2,024.00
High VHF 136-174 Quality Category D	EF Johnson	242-541G-201-AAAL6	\$1,944.00
UHF 806-870 Quality Category C	EF Johnson	242-547G-201-AAAH6	\$2,024.00
UHF 806-870 Quality Category D	EF Johnson	242-547G-201-AAAL6	\$1,944.00
<b>Mobile Trunked Digital</b>			
High VHF 136-174 Quality Category C	EF Johnson	242-541G-201-AFAH6	\$2,024.00
High VHF 136-174 Quality Category D	EF Johnson	242-541G-201-AFAL6	\$2,124.00
UHF 806-870 Quality Category C	EF Johnson	242-541G-201-AFAH6	\$2,204.00
UHF 806-870 Quality Category D	EF Johnson	242-541G-201-AFAL6	\$2,124.00
<b>Portable Trunked Digital</b>			
UHF 450-470 Quality Category	EF Johnson	242-521E-674PB6	\$1,752.00
UHF 450-470 Quality Category	EF Johnson	242-521B-630KA6	\$1,552.00
UHF 450-470 Quality Category	EF Johnson	242-521A-630KY6	\$1,292.00
UHF 450-470 Quality Category	EF Johnson	242-522E-474-BP6	\$1,740.00
<b>Error! Reference source not found.</b>	EF Johnson	242-522B-430KA6	\$1,540.00
<b>Error! Reference source not found.</b>	EF Johnson	242-522B-430KA6	\$1,540.00
UHF 450-470 Quality Category	EF Johnson	242-522A-	\$1,280.00

ITEM	Mfg Name	Brand/Model#	Total Price
		630KY6	
UHF 806-870 Quality Category B	EF Johnson	242-527E-874PB6	\$1,740.00
<b>Error! Reference source not found.</b>	EF Johnson	242-527B-830KA6	\$1,540.00
<b>Error! Reference source not found.</b>	EF Johnson	242-527A-830KY6	\$1,280.00

Discount percentage represented by bid prices is		20-35% off of List
Delivery - expressed in days after Receipt of Order		Varies by Order
Warranty Period - in excess of that required by the specifications (in days)		0 days
% Tax required		Varies by State
Components added to the above models to meet required specifications:		None

**Portable Analog  
 High VHF 136-174 Quality Category A**

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	160	512
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 1.5
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/5 selectable (Low/High)	1/5 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-66	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	3	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-65	-75/-63
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	3	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ		-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,492.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>
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Part Number	Description	Price
	Flashing EEPROM	Available
	Provision for Field Software Upgrade	Available
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$104.00
n/a	Paging Decoder Option	n/a
<b>OPTIONAL OPTIONS</b>		
888-1190-004	Vehicular Charger	\$96.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Analog  
 High VHF 136-174 Quality Category B**

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	48	512
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 1.5
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25
RF Power Output, Watts	1/5 selectable (Low/High)	1/5 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-65	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	3	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-65	-75/-63
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	3	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,412.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
Part Number	Description	Price
	Flashing EEPROM	Available
	Provision for Field Software Upgrade	Available
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$104.00
n/a	Paging Decoder Option	n/a
<b>OPTIONAL OPTIONS</b>		
888-1190-004	Vehicular Charger	\$96.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Analog  
 UHF 450-470 Quality Category A**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	160	512
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 1.5
Channel Spacing, kHz	12.5 / 25	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/4 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-65	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	3	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-73/-63	-75/-63
Spurious and Image Rejection, dB	-73	-75
Intermodulation, dB	-73	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	3	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,480.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
	Flashing EEPROM	Available
	Provision for Field Software Upgrade	Available
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-235	Regular Rate Dual Chem Charger	\$80.00

Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$104.00
n/a	Paging Decoder Option	n/a
<b>OPTIONAL OPTIONS</b>		
888-1190-004	Vehicular Charger	\$96.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Analog  
 UHF 450-470 Quality Category B**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	40	512
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 1.5
Channel Spacing, kHz	12.5 / 25	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/4 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-65	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	3	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-73/-63	-75/-63
Spurious and Image Rejection, dB	-73	-75
Intermodulation, dB	-73	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	3	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,400.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
	Flashing EEPROM	Available
	Provision for Field Software Upgrade	Available
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$104.00
n/a	Paging Decoder Option	n/a
<b>OPTIONAL OPTIONS</b>		
888-1190-004	Vehicular Charger	\$96.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Analog  
 UHF 450-470 Quality Category D**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	2	48
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 1.5
Channel Spacing, kHz	12.5 / 25	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/4 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-40	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-60	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,140.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
included	Position Rotary Channel/Mode Select Switch Option	n/c
included	Low Battery Alert Tone Option	n/c
Included	Alphanumeric Display Option	n/c
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
589-0015-057	External Speaker/Microphone Option	\$104.00

<b>OPTIONAL OPTIONS</b>		
888-1190-004	Vehicular Charger	\$96.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
	Flashing EEPROM	available
	Provision for Field Software Upgrade	available
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
included	Emergency Button/Switch Option	
included	Programmable Button/Switch Option	
included	Push-to-talk ID Transmission Option	
<b>See Attached</b>	<b>See Price Pages attached form complete Accessories and Options</b>	

**Portable Analog  
 UHF 806-870 Quality Category A**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	160	512
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 1.5	± 1.5
Channel Spacing, kHz	12.5 /20/25	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/3 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-48	-75
FM Noise, dB	-40	-45
Audio Distortion, % maximum	3	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-73/-63	-73/-63
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-72	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	3	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,480.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
	Flashing EEPROM	Available
	Provision for Field Software Upgrade	Available
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with	\$120.00

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
	Radio)	
585-5100-14010	Model II Leather Swivel Case	\$56.00
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$104.00
n/a	Paging Decoder Option	n/a
<b>OPTIONAL OPTIONS</b>		
888-1190-004	Vehicular Charger	\$96.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Analog  
 UHF 806-870 Quality Category B**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	48	512
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 1.5	± 2.0
Channel Spacing, kHz	12.5/20/25	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/3 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-48	-75
FM Noise, dB	-40	-45
Audio Distortion, % maximum	3	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-72/-63	-75/-63
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-72	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	3	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ		
Static BER sensitivity @ 5% referenced @ 12.5 KHZ		-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,400.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
	Flashing EEPROM	Available
	Provision for Field Software Upgrade	Available
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with	\$120.00

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
	Radio)	
585-5100-14010	Model II Leather Swivel Case	\$56.00
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$104.00
n/a	Paging Decoder Option	n/a
<b>OPTIONAL OPTIONS</b>		
888-1190-004	Vehicular Charger	\$96.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Analog  
 UHF 806-870 Quality Category C**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	14	512
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 1.5
Channel Spacing, kHz	12.5/20/25	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/3 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-45	-75
FM Noise, dB	-40	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-63	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ		-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,400.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
Included	Alphanumeric Display Option	
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with	\$120.00

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
	Radio)	
585-5100-14010	Model II Leather Swivel Case	\$56.00
589-0015-057	External Speaker/Microphone Option	\$104.00
<b>OPTIONAL OPTIONS</b>		
888-1190-004	Vehicular Charger	\$96.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
	Flashing EEPROM	Available
	Provision for Field Software Upgrade	Available
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
included	Emergency Button/Switch Option	
included	Programmable Button/Switch Option	
included	Push-to-talk ID Transmission Option	
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Analog  
 UHF 806-870 Quality Category D**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	2	48
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 1.5
Channel Spacing, kHz	12.5/20/ 25	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/3 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-45	-75
FM Noise, dB	-40	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-63	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,140.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>

250-5100-235	Regular Rate Dual Chem Charger	\$80.00
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
n/a	Alphanumeric Display Option	n/a
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
589-0015-057	External Speaker/Microphone Option	\$104.00
<b>OPTIONAL OPTIONS</b>		
888-1190-004	Vehicular Charger	\$96.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
	Flashing EEPROM	Available
	Provision for Field Software Upgrade	Available
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
included	Emergency Button/Switch Option	
included	Programmable Button/Switch Option	
included	Push-to-talk ID Transmission Option	
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Desktop Analog  
 UHF 806-870 Quality Category C**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	32	n/a
Operational Bandwidth/Maximum Frequency Separation, MHz	64	n/a
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	n/a
Channel Spacing, kHz	12.5 / 25	n/a
RF Input/Output Impedance, Ohms	50	n/a
<b>TRANSMITTER</b>		
RF Power Output, Watts	35	n/a
Radiated Spurious & Harmonic Emission, dB	-60	n/a
FM Noise, dB	-35	n/a
Audio Distortion, % maximum	5	n/a
Audio Response (per TIA/EIA 603)	+1, -3	n/a
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-115	n/a
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	n/a
Spurious and Image Rejection, dB	-70	n/a
Intermodulation, dB	-68	n/a
Speaker Audio Output, watts	3	n/a
Audio Distortion, % maximum	5	n/a
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-	n/a
<b>Price FOB Destination freight prepaid &amp; included in price</b>		n/a
<b>OTHER INFORMATION:</b>		n/a
Prices are based on Manufacturer's price list entitled:		n/a
Prices are based on price list quoted above dated:		n/a

<b>OPTIONAL OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
n/a	Flashing EEPROM	n/a
n/a	Provision for Field Software Upgrade	n/a
n/a	Secure Encryption Option	n/a
n/a	<b>See Price Pages attached for complete Accessories and Options</b>	n/a

**Desktop Analog**  
**UHF 806-870 Quality Category D**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	16	n/a
Operational Bandwidth/Maximum Frequency Separation, MHz	64	n/a
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	n/a
Channel Spacing, kHz	12.5 / 25	n/a
RF Input/Output Impedance, Ohms	50	n/a
<b>TRANSMITTER</b>		
RF Power Output, Watts	15	n/a
Radiated Spurious & Harmonic Emission, dB	-55	n/a
FM Noise, dB	-35	n/a
Audio Distortion, % maximum	5	n/a
Audio Response (per TIA/EIA 603)	+1, -3	n/a
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-115	n/a
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	n/a
Spurious and Image Rejection, dB	-70	n/a
Intermodulation, dB	-68	n/a
Speaker Audio Output, watts	3	n/a
Audio Distortion, % maximum	5	n/a
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-	n/a
<b>Price FOB Destination freight prepaid &amp; included in price</b>		n/a
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		n/a
Prices are based on price list quoted above dated:		n/a

<b>OPTIONAL OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
n/a	Flashing EEPROM	n/a
n/a	Provision for Field Software Upgrade	n/a
n/a	Secure Encryption Option	n/a
n/a	<b>See Price Pages attached for complete Accessories and Options</b>	n/a

**Mobile Analog**  
**High VHF 136-174 Quality Category B**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	160	512
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	1.5
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25
RF Input/Output Impedance, Ohms	50	50
<b>TRANSMITTER</b>		
RF Power Output, Watts	50	50
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-40	-45
Audio Distortion, % maximum	3	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-65	-75/-63
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, watts	5	12
Audio Distortion, % maximum	3	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm		
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,864.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
	Flashing EEPROM	available
	Provision for Field Software Upgrade	available
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
<b>OPTIONAL OPTIONS</b>		
n/a	Second Programmable Receiver with Separate Speaker	
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Mobile Analog  
 High VHF 136-174 Quality Category C**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	32	256
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	1.5
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25
RF Input/Output Impedance, Ohms	50	50
<b>TRANSMITTER</b>		
RF Power Output, Watts	40	50

Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-65	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, watts	3	12
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-	
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,744.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
	Separate Data Connector Option	available
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
included	Alphanumeric Display Option	-
<b>OPTIONAL OPTIONS</b>		
included	Single Unit Dash Mount Option	-
n/a	Second Programmable Receiver with Separate Speaker	n/a
	Flashing EEPROM	available
	Provision for Field Software Upgrade	available
included	Emergency Button/Switch Option	-
included	Programmable Button/Switch Option	-
included	Push-to-talk ID Transmission Option	-
See Attached	See Price Pages attached for complete Accessories and Options	

**Mobile Analog  
 High VHF 136-174 Quality Category D**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	16	48
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	1.5
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25
RF Input/Output Impedance, Ohms	50	50
<b>TRANSMITTER</b>		
RF Power Output, Watts	25	50
Radiated Spurious & Harmonic Emission, dB	-55	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		

Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-65	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, watts	3	12
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-	
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,664.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
	Separate Data Connector Option	available
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
<b>OPTIONAL OPTIONS</b>		
included	Single Unit Dash Mount Option	-
n/a	Second Programmable Receiver with Separate Speaker	n/a
	Flashing EEPROM	available
	Provision for Field Software Upgrade	available
included	Emergency Button/Switch Option	-
included	Programmable Button/Switch Option	-
included	Push-to-talk ID Transmission Option	-
included	Alphanumeric Display Option	-
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Mobile Analog  
 UHF 806-870 Quality Category C**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	32	n/a
Operational Bandwidth/Maximum Frequency Separation, MHz	64	n/a
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	n/a
Channel Spacing, kHz	12.5 / 25	n/a
RF Input/Output Impedance, Ohms	50	n/a
<b>TRANSMITTER</b>		
RF Power Output, Watts	35	n/a
Radiated Spurious & Harmonic Emission, dB	-60	n/a
FM Noise, dB	-35	n/a
Audio Distortion, % maximum	5	n/a
Audio Response (per TIA/EIA 603)	+1, -3	n/a
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	n/a
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	n/a
Spurious and Image Rejection, dB	-70	n/a
Intermodulation, dB	-68	n/a
Speaker Audio Output, watts	3	n/a

Audio Distortion, % maximum	5	n/a
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-	n/a
<b>Price FOB Destination freight prepaid &amp; included in price</b>		n/a
<b>OTHER INFORMATION:</b>		n/a
Prices are based on Manufacturer's price list entitled:		n/a
Prices are based on price list quoted above dated:		n/a

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
n/a	Separate Data Connector Option	n/a
n/a	Desktop/Mobile Conversion Option	n/a
n/a	Alphanumeric Display Option	n/a
<b>OPTIONAL OPTIONS</b>		
n/a	Single Unit Dash Mount Option	n/a
n/a	Second Programmable Receiver with Separate Speaker	n/a
n/a	Flashing EEPROM	n/a
n/a	Provision for Field Software Upgrade	n/a
n/a	Secure Encryption Option	n/a
n/a	<b>Emergency Button/Switch Option</b>	n/a
n/a	<b>Programmable Button/Switch Option</b>	n/a
n/a	<b>Push-to-talk ID Transmission Option</b>	n/a
n/a	<b>See Price Pages attached for complete Accessories and Options</b>	n/a

**Mobile Analog  
 UHF 806-870 Quality Category D**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	16	n/a
Operational Bandwidth/Maximum Frequency Separation, MHz	64	n/a
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	n/a
Channel Spacing, kHz	12.5 / 25	n/a
RF Input/Output Impedance, Ohms	50	n/a
<b>TRANSMITTER</b>		
RF Power Output, Watts	15	n/a
Radiated Spurious & Harmonic Emission, dB	-55	n/a
FM Noise, dB	-35	n/a
Audio Distortion, % maximum	5	n/a
Audio Response (per TIA/EIA 603)	+1, -3	n/a
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-115	n/a
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	n/a
Spurious and Image Rejection, dB	-70	n/a
Intermodulation, dB	-68	n/a
Speaker Audio Output, watts	3	n/a
Audio Distortion, % maximum	5	n/a
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-	n/a
<b>Price FOB Destination freight prepaid &amp; included in price</b>		n/a
<b>OTHER INFORMATION:</b>		n/a

Prices are based on Manufacturer's price list entitled:		n/a
Prices are based on price list quoted above dated:		n/a

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
n/a	Separate Data Connector Option	n/a
n/a	Desktop/Mobile Conversion Option	n/a
<b>OPTIONAL OPTIONS</b>		
n/a	Single Unit Dash Mount Option	
n/a	Second Programmable Receiver with Separate Speaker	n/a
n/a	Flashing EEPROM	n/a
n/a	Provision for Field Software Upgrade	n/a
n/a	Secure Encryption Option	n/a
n/a	<b>Emergency Button/Switch Option</b>	n/a
n/a	<b>Programmable Button/Switch Option</b>	n/a
n/a	<b>Push-to-talk ID Transmission Option</b>	n/a
n/a	<b>Alphanumeric Display Option</b>	n/a
n/a	<b>See Price Pages attached for complete Accessories and Options</b>	n/a

**Portable Digital  
 High VHF 136-174 Quality Category A**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	160	512
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	±2.5	±1.5
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/5 selectable (Low/High)	1/5 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-67	-75/-63
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-119	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,652.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$104.00
n/a	Paging Decoder Option	n/a
<b>OPTIONAL OPTIONS</b>		
888-1190-004	Vehicular Charger	\$96.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Digital  
 High VHF 136-174 Quality Category B**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	40	512
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 1.5
Channel Spacing, kHz	12.5 / 25	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/5 selectable (Low/High)	1/5 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-73/-63	-75/-63
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-119	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,452.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with	\$120.00

	Radio)	
585-5100-14010	Model II Leather Swivel Case	\$56.00
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$104.00
n/a	Paging Decoder Option	n/a
<b>OPTIONAL OPTIONS</b>		
888-1190-004	Vehicular Charger	\$96.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Digital**  
**High VHF 136-174 Quality Category C**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	14	512
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 1.5
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/5 selectable (Low/High)	1/5 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-43	-45
Audio Distortion, % maximum	3	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-73/-63	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,452.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	

Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
589-0015-057	External Speaker/Microphone Option	\$104.00
<b>OPTIONAL OPTIONS</b>		
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
888-1190-004	Vehicular Charger	\$96.00
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00

**Portable Digital  
 High VHF 136-174 Quality Category D**

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	2	48
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 1.5
Channel Spacing, kHz	12.5 / 25	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/5 selectable (Low/High)	1/5 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-57	-75
FM Noise, dB	-40	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-73/-63	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-60	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,192.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
Part Number	Description	Price
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
included	Emergency Button Option	-
included	Position Rotary Channel/Mode Select Switch Option	-
included	Low Battery Alert Tone Option	-
included	Programmable Button Option	-
included	Push-to-talk ID Transmission Option	-

included	Alphanumeric Display Option	-
included	Adaptive Transmitter Power Control Option	-
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
589-0015-057	External Speaker/Microphone Option	\$104.00
<b>OPTIONAL OPTIONS</b>		
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
888-1190-004	Vehicular Charger	\$96.00
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00

**Portable Digital  
 UHF 450-470 Quality Category A**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	160	512
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2	± 1.5
Channel Spacing, kHz	12.5/20/25	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/4 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-73/-63	-75/-63
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-119	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,640.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00

n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$104.00
n/a	Paging Decoder Option	n/a
<b>OPTIONAL OPTIONS</b>		
888-1190-004	Vehicular Charger	\$96.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Digital  
 UHF 450-470 Quality Category B**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	40	512
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2	± 1.5
Channel Spacing, kHz	12.5/20/25	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/4 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-73/-63	-75/-63
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-119	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,440.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$104.00
n/a	Paging Decoder Option	n/a
<b>OPTIONAL OPTIONS</b>		
888-1190-004	Vehicular Charger	\$96.00

250-5100-315	Multi-Chem Desktop Charger	\$120.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Digital  
 UHF 450-470 Quality Category C**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	14	512
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	5	± 1.5
Channel Spacing, kHz	12.5/20/25	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/4 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-43	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-73/-63	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-116	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,440.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
589-0015-057	External Speaker/Microphone Option	\$104.00
<b>OPTIONAL OPTIONS</b>		
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a

888-1190-004	Vehicular Charger	\$96.00
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00

**Portable Digital**  
**UHF 450-470 Quality Category D**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	2	48
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	5	± 1.5
Channel Spacing, kHz	12.5/20/25	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/4 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-40	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-73/-63	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-116	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,180.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
589-0015-057	External Speaker/Microphone Option	\$104.00
<b>OPTIONAL OPTIONS</b>		
n/a	RF Power Amplifiers Option	n/a

n/a	Paging Decoder Option	n/a
888-1190-004	Vehicular Charger	\$96.00
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00

**Portable Digital**  
**UHF 806-870 Quality Category A**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	160	512
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	1.5	± 1.5
Channel Spacing, kHz	12.5/25	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/3 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-40	-40
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-63	-75/-63
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-74	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-119	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,640.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$104.00
n/a	Paging Decoder Option	n/a
<b>OPTIONAL OPTIONS</b>		
888-1190-004	Vehicular Charger	\$96.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Digital  
 UHF 806-870 Quality Category B**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	48	512
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	1.5	± 1.5
Channel Spacing, kHz	12.5 / 25	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/3 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-40	-40
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-63	-75/-63
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-74	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-119	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,440.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$104.00
n/a	Paging Decoder Option	n/a
<b>OPTIONAL OPTIONS</b>		
888-1190-004	Vehicular Charger	\$96.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Digital  
 UHF 806-870 Quality Category C**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	14	512
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	± 1.5
Channel Spacing, kHz	12.5/25	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/3 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-45	-75
FM Noise, dB	-40	-40
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-73/-63	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,440.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
589-0015-057	External Speaker/Microphone Option	\$104.00
<b>OPTIONAL OPTIONS</b>		
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
888-1190-004	Vehicular Charger	\$96.00
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00

**Portable Digital  
 UHF 806-870 Quality Category D**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	2	48
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	± 1.5
Channel Spacing, kHz	12.5 / 25	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/3 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-45	-75
FM Noise, dB	-40	-40
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-73/-63	-75/-63
Spurious and Image Rejection, dB	-65	-75
Intermodulation, dB	-65	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,180.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
included	Emergency Button Option	-
included	Position Rotary Channel/Mode Select Switch Option	-
included	Low Battery Alert Tone Option	-
included	Programmable Button Option	-
included	Push-to-talk ID Transmission Option	-
n/a	Alphanumeric Display Option	-
included	Adaptive Transmitter Power Control Option	-
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
589-0015-057	External Speaker/Microphone Option	\$104.00

<b>OPTIONAL OPTIONS</b>		
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
888-1190-004	Vehicular Charger	\$96.00

Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00

**Desktop Digital  
 High VHF 136-174 Quality Category D**

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	16	48
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	5	1.5
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25
RF Input/Output Impedance, Ohms	50	50
<b>TRANSMITTER</b>		
RF Power Output, Watts	25	40
Radiated Spurious & Harmonic Emission, dB	-55	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-65	-75/-63
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, watts	3	12
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$2,224.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

OPTIONAL OPTIONS		
Part Number	Description	Price
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Desktop Digital  
 UHF 806-870 Quality Category C**

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	32	256
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	1.5
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25
RF Input/Output Impedance, Ohms	50	40
<b>TRANSMITTER</b>		

RF Power Output, Watts	35	35
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-35	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-60	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-68	-75
Speaker Audio Output, watts	3	12
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$2,196.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>OPTIONAL OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Desktop Digital  
 UHF 806-870 Quality Category D**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	16	48
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	1.5
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25
RF Input/Output Impedance, Ohms	50	40
<b>TRANSMITTER</b>		
RF Power Output, Watts	15	35
Radiated Spurious & Harmonic Emission, dB	-55	-75
FM Noise, dB	-35	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-115	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-65/-60	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-65	-75
Speaker Audio Output, watts	3	12
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-115	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$2,116.00</b>

<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Mobile Digital**  
**High VHF 136-174 Quality Category C**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	32	256
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	5	1.5
Channel Spacing, kHz	12.5 / 25	12.5 / 25
RF Input/Output Impedance, Ohms	50	50
<b>TRANSMITTER</b>		
RF Power Output, Watts	40	50
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-65	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, watts	3	12
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$2,024.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
	Separate Data Connector Option	available
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
included	Emergency Button Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric display Option	

OPTIONAL OPTIONS		
included	Single Unit Dash Mount Option	
n/a	Second Programmable Receiver with Separate Speaker	n/a
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Mobile Digital  
 High VHF 136-174 Quality Category D**

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	16	48
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	5	1.5
Channel Spacing, kHz	12.5 / 25	12.5 / 25
RF Input/Output Impedance, Ohms	50	50
<b>TRANSMITTER</b>		
RF Power Output, Watts	25	50
Radiated Spurious & Harmonic Emission, dB	-55	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-65	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, watts	3	12
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,944.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

REQUIRED OPTIONS		
Part Number	Description	Price
	Separate Data Connector Option	available
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
included	Emergency Button Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric display Option	
OPTIONAL OPTIONS		
included	Single Unit Dash Mount Option	
n/a	Second Programmable Receiver with Separate Speaker	n/a
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Mobile Digital  
 UHF 806-870 Quality Category C**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	32	256
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	1.5
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25
RF Input/Output Impedance, Ohms	50	50
<b>TRANSMITTER</b>		
RF Power Output, Watts	35	40
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-35	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-115	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-68	-75
Speaker Audio Output, watts	3	12
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-115	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$2,024.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
	Separate Data Connector Option	available
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
included	Emergency Button Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric display Option	
<b>OPTIONAL OPTIONS</b>		
included	Single Unit Dash Mount Option	
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
n/a	Second Programmable Receiver with Separate Speaker	n/a
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Mobile Digital  
 UHF 806-870 Quality Category D**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>

<b>GENERAL</b>		
Number of Channels/Modes/Personalities	16	48
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	1.5
Channel Spacing, kHz	12.5 / 25	12.5 / 25
RF Input/Output Impedance, Ohms	50	50
<b>TRANSMITTER</b>		
RF Power Output, Watts	15	40
Radiated Spurious & Harmonic Emission, dB	-55	-75
FM Noise, dB	-35	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-115	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-68	-75
Speaker Audio Output, watts	3	12
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-115	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,944.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
	Separate Data Connector Option	available
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
included	Emergency Button Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric display Option	
<b>OPTIONAL OPTIONS</b>		
included	Single Unit Dash Mount Option	
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
n/a	Second Programmable Receiver with Separate Speaker	n/a
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Mobile Trunked Digital  
 High VHF 136-174 Quality Category C**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	32	256
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	5	1.5
Channel Spacing, kHz	12.5 / 25	12.5 / 25
RF Input/Output Impedance, Ohms	50	50
<b>APCO P-25 TRUNKED STANDARDS</b>		
<b>TRANSMITTER</b>		
RF Power Output, Watts	40	50
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-65	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, watts	3	12
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$2,024.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
	Separate Data Connector Option	available
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
included	Emergency Button Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric display Option	
<b>OPTIONAL OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
included	Single Unit Dash Mount Option	
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
n/a	Second Programmable Receiver with Separate Speaker	n/a

**Mobile Trunked Digital  
 High VHF 136-174 Quality Category D**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	16	48
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	5	1.5
Channel Spacing, kHz	12.5 / 25	12.5 / 25
RF Input/Output Impedance, Ohms	50	50
<b>APCO P-25 TRUNKED STANDARDS</b>		
<b>TRANSMITTER</b>		
RF Power Output, Watts	25	50
Radiated Spurious & Harmonic Emission, dB	-55	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-65	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, watts	3	12
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$2,124.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
n/a	Separate Data Connector Option	n/a
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
included	Emergency Button Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric display Option	
<b>OPTIONAL OPTIONS</b>		
included	Single Unit Dash Mount Option	
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
n/a	Second Programmable Receiver with Separate Speaker	n/a
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Mobile Trunked Digital  
 UHF 806-870 Quality Category C**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	32	256
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	1.5
Channel Spacing, kHz	12.5 / 25	12.5 / 25
RF Input/Output Impedance, Ohms	50	50
<b>APCO P-25 TRUNKED STANDARDS</b>		
<b>TRANSMITTER</b>		
RF Power Output, Watts	35	40
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-35	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-115	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-65	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, watts	3	12
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-115	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$2,204.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
n/a	Separate Data Connector Option	n/a
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
included	Emergency Button Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric display Option	
<b>OPTIONAL OPTIONS</b>		
included	Single Unit Dash Mount Option	
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
n/a	Second Programmable Receiver with Separate Speaker	n/a
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Mobile Trunked Digital  
 UHF 806-870 Quality Category D**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	16	48
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	1.5
Channel Spacing, kHz	12.5 / 25	12.5 / 25
RF Input/Output Impedance, Ohms	50	50
<b>APCO P-25 TRUNKED STANDARDS</b>		
<b>TRANSMITTER</b>		
RF Power Output, Watts	15	40
Radiated Spurious & Harmonic Emission, dB	-55	-75
FM Noise, dB	-35	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-115	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-65	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, watts	3	12
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-115	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$2,124.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
	Separate Data Connector Option	available
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
included	Emergency Button Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric display Option	
<b>OPTIONAL OPTIONS</b>		
included	Single Unit Dash Mount Option	
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
n/a	Second Programmable Receiver with Separate Speaker	n/a
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Trunked Digital  
 High VHF 136-174 Quality Category B**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	48	512
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 1.5
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25
APCO P-25 TRUNKED STANDARDS		
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/5 selectable (Low/High)	1/5 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-70	-75/-63
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-119	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,752.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$104.00
n/a	Paging Decoder Option	n/a
<b>OPTIONAL OPTIONS</b>		
888-1190-004	Vehicular Charger	\$96.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Trunked Digital  
 High VHF 136-174 Quality Category C**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	14	512
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 1.5
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25
APCO P-25 TRUNKED STANDARDS		
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/5 selectable (Low/High)	1/5 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-43	-45
Audio Distortion, % maximum	3	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-60	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,552.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
589-0015-057	External Speaker/Microphone Option	\$104.00
<b>OPTIONAL OPTIONS</b>		
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
888-1190-004	Vehicular Charger	\$96.00
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00

250-5100-315	Multi-Chem Desktop Charger	\$120.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Trunked Digital  
 High VHF 136-174 Quality Category D**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	2	48
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 1.5
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25
APCO P-25 TRUNKED STANDARDS		
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/5 selectable (Low/High)	1/5 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-57	-75
FM Noise, dB	-40	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-60	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-60	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,292.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
589-0015-057	External Speaker/Microphone Option	\$104.00
<b>OPTIONAL OPTIONS</b>		

n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
888-1190-004	Vehicular Charger	\$96.00
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Trunked Digital  
 UHF 450-470 Quality Category A**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	160	512
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2	± 1.5
Channel Spacing, kHz	12.5/20/25	12.5 / 25
APCO P-25 TRUNKED STANDARDS		
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/4 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75	-75/-63
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-119	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,740.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$104.00
n/a	Paging Decoder Option	n/a
<b>OPTIONAL OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>

888-1190-004	Vehicular Charger	\$96.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Trunked Digital  
 UHF 450-470 Quality Category B**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	40	512
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2	± 1.5
Channel Spacing, kHz	12.5/20/25	12.5 / 25
APCO P-25 TRUNKED STANDARDS		
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/4 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-68	-75/-63
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-119	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,540.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$104.00
n/a	Paging Decoder Option	n/a
<b>OPTIONAL OPTIONS</b>		
888-1190-004	Vehicular Charger	\$96.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
<b>See Attached</b>	<b>See Price Pages attached for complete Accessories and Options</b>	

**Portable Trunked Digital  
 UHF 450-470 Quality Category C**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	14	512
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	5	± 1.5
Channel Spacing, kHz	12.5/20/25	12.5 / 25
<b>APCO P-25 TRUNKED STANDARDS</b>		
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/4 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-43	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-116	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,540.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
589-0015-057	External Speaker/Microphone Option	\$104.00
<b>OPTIONAL OPTIONS</b>		
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
888-1190-004	Vehicular Charger	\$96.00

Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00

**Portable Trunked Digital  
 UHF 450-470 Quality Category D**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	2	48
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	5	± 1.5
Channel Spacing, kHz	12.5/20/25	12.5 / 25
APCO P-25 TRUNKED STANDARDS		
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/4 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-40	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-116	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,280.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
589-0015-057	External Speaker/Microphone Option	\$104.00
<b>OPTIONAL OPTIONS</b>		
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a

888-1190-004	Vehicular Charger	\$96.00
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00

**Portable Trunked Digital  
 UHF 806-870 Quality Category B**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	48	512
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 1.5
Channel Spacing, kHz	12.5 / 25	12.5 / 25
APCO P-25 TRUNKED STANDARDS		
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/3 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-40	-40
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-63	-75/-63
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-74	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-119	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,740.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$104.00
n/a	Paging Decoder Option	n/a
<b>OPTIONAL OPTIONS</b>		
888-1190-004	Vehicular Charger	\$96.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00
<b>See Attached</b>	<b>See Price Pages for complete Accessories and Options</b>	

**Portable Trunked Digital  
 UHF 806-870 Quality Category C**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	14	512
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	± 1.5
Channel Spacing, kHz	12.5/25	12.5 / 25
APCO P-25 TRUNKED STANDARDS		
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/3 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-45	-75
FM Noise, dB	-40	-40
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,540.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
585-5100-14010	Model II Leather Swivel Case	\$56.00
589-0015-057	External Speaker/Microphone Option	\$104.00
<b>OPTIONAL OPTIONS</b>		
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
888-1190-004	Vehicular Charger	\$96.00

Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00

**Portable Trunked Digital  
 UHF 806-870 Quality Category D**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	2	48
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	± 1.5
Channel Spacing, kHz	12.5/25	12.5 / 25
APCO P-25 TRUNKED STANDARDS		
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/3 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-45	-75
FM Noise, dB	-40	-40
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-60/-55	-75/-63
Spurious and Image Rejection, dB	-65	-75
Intermodulation, dB	-65	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$1,280.00</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		10/31/2012

<b>REQUIRED OPTIONS</b>		
<b>Part Number</b>	<b>Description</b>	<b>Price</b>
250-5100-235	Regular Rate Dual Chem Charger	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
n/a	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	
Upgrade	Dual Tone Multi Frequency encoder – Keypad Option (Must be purchased with Radio)	\$120.00
589-0015-057	External Speaker/Microphone Option	\$104.00
589-0015-057	External Speaker/Microphone Option	\$104.00
<b>OPTIONAL OPTIONS</b>		
n/a	RF Power Amplifiers Option	n/a

n/a	Paging Decoder Option	n/a
888-1190-004	Vehicular Charger	\$96.00
Option	Secure AES Encryption Option (When purchased with Radio)	\$380.00
250-5100-315	Multi-Chem Desktop Charger	\$120.00

### CONTRACTOR INFORMATION

**Contractor:** [Aviat Networks, Inc. / Aviat US, Inc. \(formerly Harris Stratex Networks Operating Corporation\)](#)

(Received award for Phase I and Phase II)

<b>Contact:</b> Laurent Brigdan	Alternate Contact:	Anita Kretzschmer
<b>Phone:</b> (206) 340-1015		(408) 567-3867
<b>Fax:</b> (408) 567-2161		(408) 567-2102
<b>Email:</b> <a href="mailto:laurent.brigdan@aviatnet.com">laurent.brigdan@aviatnet.com</a>		<a href="mailto:Anita.kretzschmer@aviatnet.com">Anita.kretzschmer@aviatnet.com</a>

**Internet address:** [www.aviatnetworks.com](http://www.aviatnetworks.com)

**Web catalog address:** [www.aviatnetworks.com](http://www.aviatnetworks.com)

**Federal ID No.:** 34-0276860; New Federal ID # 77-0016028

**Supplier No.:** W326

**Total Contract worth:** \$6,280,000 (estimate based on 2012 sales)

<b>Payment address:</b>	637 Davis Drive Morrisville, NC 27560	Order placement address:	637 Davis Drive Morrisville, NC 27560
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**Customer Service:** Laurent Brigdan

**Telephone:** (206) 340-1015

**Fax:** (408) 567-2161

**Ordering procedures:**

**Credit card acceptance:** Visa, MasterCard

**Minimum orders:**

**Delivery time:** Days After Receipt of Order (ARO): Aurora: 30 days, Constellation, MegaStar, Galaxy, Microstar, TRuepoint Eclipse, IRU, Unity, WTM: 30-60 days, SPR Series, TBD

**Payment terms:** 0% 30 days

**Shipping destination:** Freight on Board (FOB) destination

**Freight:** Prepaid and included

**Palletization:** N/A

**Category:** Category 5, Digital Microwave Radios

**Equipment Line items:** Accessories at pass through pricing and added options at reduced prices see contractor

**Link to bid Specifications:**

**Awarded Phase(s)** Phase I & II

The following business is authorized to sell and service all Aviat Networks products and services vis this WSCA contract:

DG Capitel Ltd.  
3540 W. Sahara Avenue E-6 #98  
Las Vegas, NV. 89102  
Contact: Scott Crosbie  
Tel: (702)-990-1507  
[scrosbie@dgcapitel.com](mailto:scrosbie@dgcapitel.com)

<b>State of Washington – Master Contracts and Consulting</b>			
<b>Microwave Radio Bid Response Price Sheet</b>			
	<b>Optional Items-Technical Services<sup>1</sup></b>		
<b>Item</b>	<b>Description</b>		<b>Price (Per Price Book)</b>
1.00	Frequency Coordination		
1.10	Frequency Bands-6 and 11 GHz		
1.11	First Frequency Pair		\$1,400.00
1.12	Additional Frequency pairs coordinated at the same time.		\$900.00
1.20	Frequency Bands-10, 18 and 23 GHz		
1.21	First Frequency Pair		\$1,300.00
1.22	Additional Frequency pairs coordinated at the same time.		\$850.00
1.30	Renewal Notices-Required to protect coordinated paths when license filings haven't been submitted.		
1.31	For first path		\$320.00
1.32	For each additional path at the same time		\$70.00
1.40	FCC License Preparation		
1.41	Per site location		\$400.00
1.50	FCC License Submittal Fee		
1.51	New License-per site location		\$480.00
1.52	Modification to License-per site location		\$295.00
1.60	Verbal Coordination Expedite		
1.61	For first path		\$850.00
1.62	For each additional path at the same time		\$200.00
2.00	Field Engineering		
2.10	Field Service Enginner (rate per man day)		\$1,200.00
2.20	Field Living Expenses (rate per calender day)		\$152.00
3.00	Installation Services (Per Man Day)		
3.10	EF&I Project Engineering		\$800.00
3.20	Program Management		\$1,126.00

3.30	Field Engineer		\$880.00
3.40	Network Engineering		\$1,100.00
3.50	Application Engineering		\$900.00
3.60	Transmission Engineering		\$1,100.00
3.70	Path Survey (for up to 3 paths; over 3 paths obtain quote)		\$2,700.00
3.80	Field Expenses		\$152.00
	<sup>1</sup> Please see Harris Price Book, Volume II for more details and conditions for above items		

## North America Sales & Private Networks Assignment

**EASTERN - WESTERN CANADA**

**NORTHWEST**

**AK, WA, OR,**

Laurent Brigdan  
 Suite #205, 10002 Aurora Ave. North #36  
 Seattle, WA 98133-9348  
 Tel: 206-340-1015  
 Mobile: 206-369-7766  
 eFax: 408-567-2161  
 Anita Kretzschmer: 514-421-9441

**ROCKY MOUNTAIN**

**ID, UT, MT, WY, CO, ND, SD, NE**

Kathleen Warner  
 303 South Broadway, Ste. 200-119  
 Denver, CO 80209  
 Tel: 303-805-9898  
 Mobile: 303-807-3799  
 eFax: 408-567-2153  
 Mustafa Senol: 210-526-6444

**WEST**

**N.CA, NV, HI**

Ali Hirsu  
 5200 Great America Parkway  
 Santa Clara, CA 95054  
 Tel: 408-567-8640  
 Mobile: 650-868-3904  
 eFax: 408-567-2224  
 Sherry Lu: 408-567-8642

**SOUTHWEST**

**S.CA, AZ, NM**

Steve Verrando  
 93 Matisse Circle  
 Aliso Viejo, CA 92656  
 Tel: 949-707-2710  
 Mobile: 714-319-3360  
 eFax: 408-567-2206  
 Homer Decano: 408-567-6630

**SOUTH-CENTRAL**

**TX, OK, AR, LA, KS, MO**

Todd Truss  
 5250 Prue Rd. Bldg. 5 Ste. 535  
 San Antonio, TX 78240  
 Tel: 210-526-8449  
 Mobile: 210-386-3194  
 eFax: 408-567-2211  
 Eric Harris 210-526-8445

**SOUTHEAST**

**MS, AL, GA, SC, NC, FL**

Greg Martin  
 11675 Great Oaks Way, Suite 120  
 Alpharetta, GA 30022  
 Tel: 678-837-3605  
 Mobile: 770-312-9624  
 eFax: 408-567-2223  
 Gary Howard 210-526-6446

**VP SALES of the AMERICAS**

Tony Ljubich  
 22 Sniffen Road  
 Armonk, NY 10504  
 Tel: 914-219-5391  
 Mobile: 917-439-5892  
 eFax: 408-567-2214  
 Gale Saylor (Proposal Coordinator)  
 Tel: 408-567-8649  
 eFax: 408-567-2128

**MIDWEST**

**MN, IA, MI, WI, IL, IN, OH**

John Kingsley  
 1225 West Francis Circle  
 St. Charles, IL 60174  
 Tel: 630-762-3730  
 Mobile: 630-886-8376  
 eFax: 408-567-2149  
 Bob Rather: 210-526-6448

**NORTHEAST**

**NY, VT, ME, NH, MA,**

**NJ, CT, RI, PA, DE**  
 Bob Brown  
 4 Highland Ave  
 Atkinson, NH 03811  
 Tel: 603-362-4122  
 Mobile: 603-479-2171  
 eFax: 408-567-2240  
 Joseph Church 210-526-6441

**MID-ATLANTIC**

**TN, WV, VA, KY, MD**

Christopher Gowan  
 4740 Northridge Drive  
 Cumming, GA 30040  
 Tel: 678-341-9769  
 Mobile: 404-808-1651  
 E-Fax: 408-567-2118  
 Joseph Church 210-526-6441

**US Government Initiatives**

Account Manager  
 Robin Sims  
 11675 Great Oaks Way, Suite 120  
 Alpharetta, GA 30022  
 Tel: 678-837-3607  
 Mobile: 678-923-9586  
 eFax: 408-567-2192

**DIRECTOR PRIVATE NETWORKS**

John Kerrigan  
 Tel: 850-212-2212  
 Mobile: 209-969-9928  
 eFax: 408-567-2148



PHASE I

HARRIS MCD DISCOUNT SCHEDULE FOR WSCA PHASE I INCL. ACCESSORIES			
1	Constellation 6 GHz	8 x T1	59%
2	Constellation 6 GHz	16 x T1	59%
3	Constellation 6 GHz	28 x T1	60%
4	Constellation 6 GHz	OC3	61%
5	Constellation 6 GHz	3 DS3	60%
6	Constellation 10/11 GHz	8 x T1	60%
7	Constellation 10/11 GHz	16 x T1	60%
8	Constellation 11GHz	28 x T1	61%
9	Constellation 11 GHz	OC3	65%
10	Constellation 11 GHz	3 DS3	63%
11	MegaStar 155-6 GHz	OC-3	53%
12	MegaStar 155-11 GHz	OC-3	52%
13	MegaStar 155-6 GHz	3 DS3	54%
14	MegaStar 155-11 GHz	3 DS3	52%
(See Constellation above for OC3 and 3 DS3 radios. MegaStar available for system expansions)			
15	MicroStar 18 ext mux	28 x T1	50%
16	MicroStar 18 ext mux	28 x T1	50%
17	MicroStar 18 ext mux	16 x T1	50%
18	MicroStar 18 ext mux	16 x T1	50%
19	TRuepoint 18	28 & 16 x T1	Year 1 @ 50% Year 2 & 3 @ 59%
20	MicroStar 23 ext mux	28 x T1	44%
21	MicroStar 23 ext mux	28 x T1	44%
22	MicroStar 23 ext mux	16 x T1	44%
23	MicroStar 23 ext mux	16 x T1	44%
24	TRuepoint 23	28 & 16 x T1	Year 1 @ 44% Year 2 & 3 @ 53%
24	Galaxy 18 GHz	OC3	37%

25	Galaxy 23 GHz	OC3	36%
26	TRuepoint 18 GHz	OC3	Year 1 @ 37% Year 2 & 3 @ 46%
27	TRuepoint 23 GHz	OC3	Year 1 @ 36% Year 2 & 3 @ 45%
28	All other TRuepoint capacities, frequencies, & accessories		Year 1 @ 37% Year 2 & 3 @ 46%
29	All Eclipse/ Unity / IRU 600 capacities, frequencies & accessories		Year 1 @ 37% Year 2 & 3 @ 46%
30	Aurora 5.8, unprotected	1 X T1	47%
31	Aurora 5.8, unprotected	2 X T1	56%
32	StarView	NMS	10%
33	FarScan for Windows	SW	NO CHARGE
34	CAU remote alarm unit	32 alarms	\$1,920
35	MicroStar order wire		\$225
36	Constellation order wire		\$625
37	MegaStar order wire		\$625
38	Rack and fuse panel*		\$500
39	M13 mux		\$2,519
40	OEM equipment		Per price list attached
	** Space Diversity additional cost		

Frequency Band: 6 GHz					Radio Configuration: Hot Standby - Terminal					Date: 7/24/03
Capacity in T1s	Model Number Constellation	Radio List Price	Radio Discount	Mux Price (No Discount)	MW Equip (Radio w/ DS1 Mux) Price First Year3	MW Equip (Radio w/ DS1 Mux) Price Second/Third Year3, 6	No DS1 Multiplex4 (per Section 1.22 (4) of Phase 2 Tech Specs)	Orderwire Price	Alarm and Control Price	Total Line Price, 1st Year

DS34	RC306EE STPZ#B0 00B	\$58,000.00	58.00%		\$24,360.00	\$19,140.00	\$24,360.00	\$625.00	included	\$24,985.00
3xDS34	RY106EG TPV##000 0B	\$70,725.00	60.00%		\$28,290.00	\$21,924.75	\$28,290.00	\$625.00	included	\$28,915.00
2xDS3 + 28DS14	RY106EG TPW##00 00B	\$77,725.00	63.00%		\$28,758.25	2nd Year: \$28,758.25 3rd Year: \$21,763.00	\$28,758.25	\$625.00	included	\$29,383.25
4xDS34	RY106EG TPY#P00 00B	\$83,500.00	69.00%		\$25,885.00	2nd Year: \$25,885.00 3rd Year: \$18,370.00	\$25,885.00	\$625.00	included	\$26,510.00
3xDS3 + 28DS14	RY106EG TPZ##000 0B	\$90,500.00	71.00%		\$26,245.00	2nd Year: \$26,245.00 3rd year: \$18,100.00	\$26,245.00	\$625.00	included	\$26,870.00

Notes:

<sup>1</sup>Power shall be measured at top of flange in dBm.

<sup>2</sup>Based on 10<sup>-3</sup> Bit Error Rate receiver sensitivity.

<sup>3</sup>Prices include a fully functional assembly with all standard industry interfaces for the signal payload, power connections, alarm I/O connections and any required data

or service channel interfaces.

<sup>4</sup>This space is reserved for vendors to add either equipment configurations or additional options.

<sup>5</sup>Provide physical interfaces for radio bid, ie Fast Ethernet, T1, DS3 etc

<sup>6</sup>Second (2nd) year discounts do not apply to 2xDS3+28DS1, 4xDS3 and 3xDS3+28DS1 capacity radios. The quantity break discounts are only valid in year three (3).

This is an example of Phase I pricing

**Phase II**  
**Stratex Networks Operating Corporation**

Manufacturer	Freq. Band	Capacity in T1's	Part number	Total Price
<b>Hot Standby - Terminal – 6 GHz</b>				
Harris	6 GHz	28T	RC306EESTPH#B000B	\$26,425
Harris	6 GHz	SONET-OC3	RY106EGTPB##000B	\$27,544
<b>Non-Hot Standby - Terminal – 6 GHz</b>				
Harris	6 GHz	28T	RC306AESTPH#B000B	\$15,145
Harris	6 GHz	SONET-OC3	RY106AGTBP##000B	\$16,205
<b>Hot Standby - Terminal – 11 GHz</b>				
Harris	11 GHz	28T	RC311EESTPH#B030B	\$27,340
Harris	11 GHz	SONET-OC3	RY111EGTPB##1030b	\$28,118
<b>Non-Hot Standby - Terminal – 11 GHz</b>				
Harris	11 GHz	16T	RC311ACSTPE#B030B	\$14,538
Harris	11 GHz	28T	RC311AESTPH#B030B	\$15,562
Harris	11 GHz	SONET-OC3	RY111AGTPB##1030B	\$16,428
<b>Hot Standby - Terminal – 18 GHz</b>				
Harris	18 GHz	SONET-OC3	Galaxy RX118GZM209D#22	\$24,570
Harris	18 GHz	SONET OC3	Year 1 TRuepoint / Eclipse / Unity / IRU 600 HT152##DE2SS##00, ST15PPNP181####1A	\$24,570
Harris	18 GHz	SONET OC3	Year 2 & 3 TRuepoint / Eclipse / Unity / IRU 600 HT152##DE2SS##00, ST15PPNP181####1A	\$21,060
<b>Non-Hot Standby – Terminal – 18 GHz</b>				
Harris	18 GHz	28T	Microstar M/H RK118AZS####0B001 + M13 MUX	\$7,737
Harris	18 GHz	28T	Year 1 TRuepoint / Eclipse / Unity / IRU 600 HT152##AA2SS##00, ST15NNNN070#1##1A	\$7,737
Harris	18 GHz	28T	Year 2 & 3 TRuepoint / Eclipse / Unity / IRU 600 HT152##AA2SS##00, ST15NNNN070#1##1A	\$6,671
Harris	18 GHz	SONET-OC3	Galaxy RX118AZM209D#22	\$13,230
Harris	18 GHz	SONET OC3	Year 1 TRuepoint / Eclipse / Unity / IRU 600 HT152##DA2SS##00, ST15NNNN181####1A	\$13,230
Harris	18 GHz	SONET OC3	Year 2 & 3 TRuepoint / Eclipse / Unity / IRU 600 HT152##DA2SS##00, ST15NNNN181####1A	\$11,340
<b>Non-Hot Standby - Terminal – 23 GHz</b>				
Harris	23 GHz	28T	Microstar M RF223EZS####0B41#B + M13 MUX	\$8,616
Harris	23 GHz	28T	Year 1 TRuepoint / Eclipse / Unity / IRU 600 HT152##AA2SS##00, ST15NNNN070#1##1A	\$8,616
Harris	23 GHz	28T	Year 2 & 3 TRuepoint / Eclipse / Unity / IRU 600 HT152##AA2SS##00, ST15NNNN070#1##1A	\$7,523
Harris	23 GHz	SONET-OC3	Galaxy RB123ADS##56B40A	\$15,168
Harris	23 GHz	SONET-OC3	Year 1 TRuepoint / Eclipse / Unity / IRU 600 HT152##DA2SS##00, ST15NNNN181####1A	\$15,168
Harris	23 GHz	SONET-OC3	Year 2 & 3 TRuepoint / Eclipse / Unity / IRU 600 HT152##DA2SS##00, ST15NNNN181####1A	\$13,035

Hot Standby – Repeater – 6 GHz				
Harris	6 GHz	28T	RC306ECSAPEEB000B RC306ECSB####000A	\$48,975
Harris	6 GHz	SONET-OC3	RY106EGTPB##0000B RY106EGCPB##0000a	\$55,090
Non-Hot Standby – Repeater – 6 GHz				
Harris	6 GHz	28T	RC306ACSAPEEB000B RC306ACSB####000A	\$26,765
Hot Standby – Repeater – 11 GHz				
Harris	11GHz	16T	RC311ECSAPCCB030B RC311ECSB####030A	\$49,521
Harris	11GHz	28T	RC311ACSAPEEB030B RC311ACSB####030A	\$50,886
Harris	11GHz	SONET-OC3	RY111EGTPB#P0030b RY111EGCPB#P0030A	\$56,235
Non-Hot Standby – Repeater – 11 GHz				
Harris	11GHz	16T	RC311ACSAPEEB030B RC311ACSB####030A	\$26,307
Harris	11GHz	28T	RC311ACSAPEEB030B RC311ACSB####030A	\$27,330
Harris	11GHz	SONET-OC3	RY111AGTPB#P0030B RY111AGCPB#PB#0030a	\$32,855
Hot Standby – Repeater – 18 GHz				
Harris	18 GHz	SONET-OC3	Galaxy RX118GZM209D#20 RX118GZM209D#20	\$49,140
Harris	18 GHz	SONET-OC3	Year 1 TRuepoint / Eclipse / Unity / IRU 600 QTY 2 - HT152##DE2SS##00, ST15PPNP181####1A	\$49,140
Harris	18 GHz	SONET-OC3	Year 2 & 3 TRuepoint / Eclipse / Unity / IRU 600 QTY 2 - HT152##DE2SS##00, ST15PPNP181####1A	\$42,120
Non-Hot Standby – Repeater – 18 GHz				
Harris	18 GHz	28T	Microstar M/H RK118AZS####0B001 RK118AZS####0B001 + M13 MUX	\$13,887
Harris	18 GHz	28T	Year 1 TRuepoint / Eclipse / Unity / IRU 600 QTY 2 - HT152##AA2SS##00, ST15NNNN070#1##1A	\$13,887
Harris	18 GHz	28T	Year 2 & 3 TRuepoint / Eclipse / Unity / IRU 600 QTY 2 - HT152##AA2SS##00, ST15NNNN070#1##1A	\$11,754
Harris	18 GHz	SONET-OC3	Galaxy RX118AZM209D#22 RX118AZM209D#22	\$26,460
Harris	18 GHz	SONET-OC3	Year 1 TRuepoint / Eclipse / Unity / IRU 600 QTY 2 - HT152##DA2SS##00, ST15NNNN181####1A	\$26,460
Harris	18 GHz	SONET-OC3	Year 2 & 3 TRuepoint / Eclipse / Unity / IRU 600 QTY 2 - HT152##DA2SS##00, ST15NNNN181####1A	\$22,680
Non-Hot Standby - Repeater – 23 GHz				
Harris	23 GHz	28T	Microstar M RF223AZS####0B41#B RF223AZS####0B41#B + M13 MUX	\$15,645
Harris	23 GHz	28T	Year 1 TRuepoint / Eclipse / Unity / IRU 600 QTY 2 - HT152##AA2SS##00, ST15NNNN070#1##1A	\$15,645
Harris	23 GHz	28T	Year 2 & 3 TRuepoint / Eclipse / Unity / IRU 600 QTY 2 - HT152##AA2SS##00, ST15NNNN070#1##1A	\$13458
Harris	23 GHz	SONET-OC3	Galaxy RB123ADS##56B40A RB123ADS##56B40A	\$30,336
Harris	23 GHz	SONET-OC3	Year 1 TRuepoint / Eclipse / Unity / IRU 600 QTY 2 - HT152##DA2SS##00, ST15NNNN181####1A	\$30,336
Harris	23 GHz	SONET-OC3	Year 2 & 3 TRuepoint / Eclipse / Unity / IRU 600 QTY 2 - HT152##DA2SS##00, ST15NNNN181####1A	\$26,070

**CONTRACTOR INFORMATION**

<b>Contractor:</b>	<b>Icom America, Inc.</b> (Received award for Phase I and Phase II)		
<b>Contact:</b>	Kristina Pickering, Government Sales Program Manager; Supports Contract Administration, Sales Programs, etc.	Alternate Contact: Government Sales & Customer Service; Supports: Pricing, availability, quotes, orders, tracking, etc.	
<b>Address:</b>	2380 116 <sup>th</sup> Ave NE Bellevue, WA 98004		
<b>Phone:</b>	(425) 450-6092	(425) 450-6090	
<b>Fax:</b>	(425) 450-6063	(425) 450-6063	
<b>Email:</b>	<a href="mailto:salescontracts@icomamerica.com">salescontracts@icomamerica.com</a>	<a href="mailto:governmentsales@icomamerica.com">governmentsales@icomamerica.com</a>	
<b>Internet address:</b>	<a href="http://www.icomamerica.com">http://www.icomamerica.com</a>		
<b>Phase I - Product Information and Pricing:</b>	Land Mobile Division – 37.25% off List Price Aviation Division – 49.25% off List Price		
<b>Phase II – Product Information and Pricing:</b>	<a href="#">Aviation Division – 49.25% off List Price</a>		
<b>Federal ID No.:</b>	91-1083924		
<b>Supplier No.:</b>	W7651		
<b>Total Contract worth:</b>	\$1,880,000 (estimate based on 2012 sales)		
<b>Payment address:</b>	ICOM America, Inc. P.O. Box 31001-1310 Pasadena, CA 91110-1310	Order placement address:	ICOM America, Inc. 2380 116 <sup>th</sup> Avenue NE Bellevue, WA 98004
<b>Customer Service:</b>	Government Sales Administration		
<b>Telephone:</b>	(800) 306-1403		
<b>Fax:</b>	(425) 450-6063		
<b>Ordering procedures:</b>	Email, fax or call customer service		
<b>Credit card acceptance:</b>	Visa, MasterCard, American Express		
<b>Minimum orders:</b>	N/A		
<b>Delivery time:</b>	30-60 days After Receipt of Order (90 days on large orders)		
<b>Payment terms:</b>	3% - 30 days net 45		
<b>Shipping destination:</b>	Freight on Board (FOB) destination		
<b>Freight:</b>	Prepaid and included		
<b>Palletization:</b>	N/A		
<b>Category:</b>	Category 2 Aircraft Band Radios		
<b>Equipment Line items:</b>			
<b>Support Services:</b>	\$71.25 per hour		
<b>Repair Services:</b>	\$71.25 per hour		
<b>Installation Services:</b>	\$33.25 per radio		
<b>Programming Services:</b>	\$33.25 per radio		
<b>Link to bid Specifications:</b>	<a href="http://www.ga.wa.gov/pca/bids/02702-Phase2-Category2.doc">http://www.ga.wa.gov/pca/bids/02702-Phase2-Category2.doc</a>		
<b>Awarded Phase(s):</b>	Phase I & II		

Phase I & II – Equipment from our 4 divisions (Amateur, Avionics, Marine and Land Mobile) to WSCA and Non-WSCA states for Icom equipment.

WHEN END USER PURCHASES DIRECT FROM ICOM America	FOR AVIONICS PRODUCTS SEE AUTHORIZED DEALERS:  WSCA Authorized Dealers September 2012
Land Mobile Division 37.25% off List price (including RF Technology Eclipse Series P25 Repeater)  AVIONICS 49.25% off list price	Phase One & Phase Two Pricing:  WSCA 02702c Pricing September 1 2012 re'  Icom RF Tech Eclipse P25 Repeater.pdf

Effective April 1, 2010, Icom America updated its equipment warranty as follows:

- Three (3) years full parts and labor warranty on P25 digital and IDAS Land Mobile radios
- Two (2) years full parts and labor warranty on all other Land Mobile radios
- One (1) year full parts and labor warranty on all accessories
- 1 / 2 / 3 years extended warranty options are available for Land Mobile division mainframes upon request.

**SPECIFICATIONS**  
 AM Band Aircraft Radio

Description
One panel mounted VHF-AM Aeronautical Transceiver (VHF-1)
Two panel mounted VHF-AM Aeronautical Transceiver (VHF-1 and VHF-2)
Operating in the frequency band of 118.00 to 135.975 MHz
With a minimum of 760 channels in no greater than 25 Khz increments
Minimum of 5 watt carrier output power
Must be TSO certified

### CONTRACTOR INFORMATION

**Contractor:** **Raytheon/JPS**

(Received award for Phase I and Phase II)

**Contact:** Ramona Myers      **Alternate Contact:** Arthur Powers, VP Contracts

**Phone:** (919) 790-1011      (919) 865 1054

**Fax:** (919) 865-1400      (919) 865-1400

**Email:** [Ramona.myers@raytheon.com](mailto:Ramona.myers@raytheon.com)      [arthur\\_g\\_powers@raytheon.com](mailto:arthur_g_powers@raytheon.com)

**Internet address:** [www.raytheon.com](http://www.raytheon.com)

**Web catalog address:**

**Federal ID No.:** 56-1621866

**Supplier No.:** 1794

**Total Contract worth:** \$560,000 (estimate based on 2012 sales)

**Payment address:** Raytheon/JPS      **Order placement address:** Raytheon/JPS  
5800 Departure Drive      5800 Departure Drive  
Raleigh, NC 27616      Raleigh, NC 27616

**Customer Service:** **Marcia Ray, Inside Sales Associate**  
[marcia.ray@raytheon.com](mailto:marcia.ray@raytheon.com)

**Telephone:** (919) 865 1216

**Fax:** (919) 865-1400

**Ordering procedures:**

**Credit card acceptance:** Master Card, Visa

**Minimum orders:**

**Delivery time:** 30 days After Receipt of Order (ARO)

**Payment terms:** 0% 30 days

**Shipping destination:** Freight on Board (FOB) destination

**Freight:** Prepaid and included

**Palletization:** N/A

**Category:** Gateway systems; ACU1000, voter devices

**Equipment Line items:**

**Link to bid Specifications:** <http://www.ga.wa.gov/pca/bids/02702-Phase2-Category4.doc>

**Awarded Phase(s):** Phase I & II

The purpose of this section is to purchase an audio switch unit(s) that has components that are interface modules, each designed to connect a specific communications medium (VHF/UHF radio, telephone or Satcom, HF radio, local operator, ect.), a control module, a power supply module, a chassis to accommodate the modules, and a backplane to route audio and control signals between modules.

Category 4, Specifications for ACU1000 and ACU-5000 added 10/28/2011.

Description
<b>RDI-1/DSP-1/AP-1 RX Audio Input</b>
<b>Input Impedance:</b> Balanced or unbalanced 600 ohms or 10k ohms.
<b>Input level:</b> -30 dBm to + 10 dBm, adjustable.
<b>Frequency Responses:</b> 100 Hz to 3200 kHz $\pm$ 2Db
<b>RDI-1/DSP-1 TX Audio Output RDI-1/DSP-1/AP-1 TX Audio Output</b>
<b>Output Impedance:</b> Balanced or unbalanced 600 ohms.
<b>Output Level:</b> -20 to +11 dBm, adjustable.
<b>Frequency Response:</b> 100 to 3200 Hz $\pm$ 2dB
<b>RDI-1/DSP-1/AP-1 COR Input</b>
<b>Input Impedance:</b> 47K ohm pullup to + 5V.
<b>Polarity:</b> Active low or high, selectable.
<b>Threshold:</b> + 2.5V nominal.
<b>Protection:</b> up to $\pm$ 100 VDC
<b>RDI-1/DSP-1/AP-1 PTT Output</b>
<b>Output Type:</b> Open drain, 47k ohm pullup to +5V.
<b>Polarity:</b> Active low or high, selectable.
<b>Maximum Sink Current:</b> 100 mA
<b>Maximum Open Circuit Voltage:</b> + 60 VDC
<b>PSTN-1 Telephone Interface</b>
<b>Telephone Line Levels:</b> Adjustable -24 dBm to 0 dBm in 3 dB steps.
<b>Hybrid Type:</b> DSP adaptive hybrid; -30 dB broadband balance.
<b>Frequency Response:</b> 100 Hz to 3200 Hz $\pm$ 2 dB
<b>VOX Threshold:</b> Selectable -19, -16, -13, and -10 dB relative to telephone line level.
<b>VOX Hangtime:</b> Selectable 0.5, 1.0, 1.5, and 2.0 seconds.
<b>General/ Environmental</b>
<b>Control Processor Module Serial Port:</b> RS-232 DCE connector (female DB0). Baud rates: 1200, 2400, 4800, or 9600, software selectable.
<b>Power Supply Front Panel (PSM-1A):</b> Power on/off Switch; AC on, DC on, +12 VDC, - 12 VDC LEDs.
<b>Handset/Speaker Front Panel (HSP-2):</b> Speaker, Speaker on/off switch, 1/8 inch Headphone jack, Volume control, PTT LED, Fault LED, Handset jack, 3X4 Keypad.
<b>Control Processor Front Panel (SPM-2):</b> Master, Slave, and Fault LEDs.
<b>Radio Interface Front Panel (RDI-1):</b> Signal, COR, PTT, and Fault LEDs.
<b>Tel Interface Front Panel (PSTN-1):</b> Monitor, Ring, Connect, VOX, and Fault LEDs: L1 and L2 RJ11C Connectors.
<b>Local Phone Front Panel (LP-1):</b> Monitor, Ring, Off Hook, VOX, and Fault LEDs: L1 and L2 RJ11C Connectors.
<b>Audio Processor Front Panel (AP-1):</b> Bypass, PTT, Normal, Peak LEDs, Bypass switch.
<b>Rear Panel:</b> DC fuse holder, AC filter module, connectors to interface up to 12 modules, Serial remote connector, Expansion connector.
<b>AC Input Power:</b> 115 to 230 VAC $\pm$ 15%, 47-63 Hz, 100 VA typical, 130 VA maximum.
<b>DC Input Power:</b> + 11 to + 15 VDC @ 5A nominal.

Description
<b>Size:</b> 5.25 in H X 19 in W X 11 in D (13.3X48.3X28 cm)
<b>Temperature:</b> Operation: -20 to +60 degrees C. Storage: -40 to +85 degrees C.
<b>Humidity:</b> Up to 95% @ 55 degrees C.
<b>Shock:</b> MIL-STD-810D, method 516.3, procedure VI
<b>Vibration:</b> MIL-STD-810D, Method 514.3, Category I.
Provide product support for 7 years after last unit being purchase from this IFB.
Provide <u>Required Firmware</u> , Software updates or improvements at no cost for 7 years after last unit being purchase from this IFB.

### PRODUCTS AND PRICE SHEETS (Added May 2012)

PART NUMBER	DESCRIPTION	OLD PRICE	PRICE EFF. 6/1/13
5090-601611	Workstation – includes large touch screen monitor, keyboard/mouse, audio interface, headset box, speakers and footswitch	\$10,393.00	\$10,393.00
5090-601620	Workstation – includes standard touch screen monitor, keyboard/mouse, audio interface, headset box, speakers and footswitch	\$9,993.00	\$9,993.00
5090-601601	Gateway Servers (2) Redundant	\$15,260.00	\$15,260.00
5090-601602	Instant recall record interface	\$995.00	\$995.00
5090-601603	Controller (12 slot)	\$3,265.00	\$3,265.00
5090-601604	Double Power Supply	\$2,995.00	\$2,995.00
5090-601605	Termination Panel	\$1,005.00	\$1,005.00
5090-601606	Channel Controller	\$19,950.00	\$19,950.00
5090-601610	Spares	\$9,637.00	\$9,637.00
5090-601621	Touchscreen GUI	\$225.00	\$225.00
5090-601622	Jack Box	\$325.00	\$325.00

### PRICE SHEETS

PART NUMBER	DESCRIPTION	OLD PRICE	PRICE EFF. 6/1/13
5100-100000	ACU-5000 Next Generation IP Based Interoperability Gateway Server (with accessory Kit & Manual). Base unit includes four ports activated.	\$15,500.00	\$15,461.25
5100-112000	Additional Channels (for above Gateway server) (cost per channel). Up to 8 additional ports can be activated for a maximum of twelve ports.	\$1,590.00	\$1,586.50

PART NUMBER	DESCRIPTION	OLD PRICE	PRICE EFF. 6/1/13
0130-310319	MGNT-TB-V/U/C - Tri-band mobile antenna, magnet, roof mount	No longer available	
0130-301550	IOAK-TB-V/U/C - Interoperable antenna with tri-band coupler	No longer available	
0130-401360	IOAK-QB-A/V/U/C - Interoperable antenna with quad-band coupler	No longer available	
0131-301550	IOAK-Tripod - Optional black tripod for IOAK antennas	No longer available	
0150-200000	Handset, Black	\$104	\$110.20
0313-060000	Coil Cord	\$28	\$30.40
0313-080100	Null Modem Cable-6 ft.	\$28	\$30.40
5050-110000	Extended Rear Back Panel (Front Mount) for the ACU-1000	\$1,427	\$1,486.75
5050-120000	Extended Rear Back Panel (Rear Panel)		\$1,486.75

5020-500000	CE Approved RTU-292 (international)	\$4,797	\$5,037.85
5020-500000	Standard RTU-292		\$5,037.85
5030-200000	ACU-T Tactical Package, AC/DC Powered Includes Card Cage, HSP-4A and CPM-4 Modules, and Accessory Kit	\$4,465	\$4,688.25
5030-200150	Accessory Kit	\$237	\$249.85
5030-204000	Case Option Kit - * Ruggedized Foam-Lined Case includes Battery Power Kit. Allows for storage for ACU-T Accessories and Radio Interface Cables.	\$1,007	\$1,057.35
5030-205000	ACU-T Battery Power Kit - 18 AH battery with cable	\$222	\$229.90
5030-206000	STU-III Phone Option for ACU-T (use with DSP-2 for STU-III Interface)	\$674	\$698.25
5030-210000	ACU-T Bundle Kit - Includes ACU-T Tactical Package, 5 Interface Modules, and Case Option Kit with Battery - to qualify for Bundle Kit pricing, each kit must be ordered with 5 Interface Modules, in any combination. Anything less is not a Bundle Kit. ACU-T Interface Modules are the same part numbers as the ACU-1000 Interface Modules (DSP-2, PSTN-2, LP-1).	\$10,301	\$10,733.10
5030-273000	Power Cord Adaptor-External Power Supply	\$304	\$319.20
5030-299010	LE-10 4-Wire Audio Remote with Handset & Speaker with adapter - used with ACU-T	\$683	\$708.70
5030-299020	LE-20 4-Wire Audio Remote with Desktop Microphone and Speaker with adapter - used with ACU-T	\$964	\$1,007.95
5030-299030	LE-30 Remote Station - used with ACU-T	\$985	\$1,027.90
5030-299040	LE-40 Remote Speaker Microphone Assembly - used with ACU-T	\$1,105	\$1,157.10
5040-602200	HSP-2A Module - Handset Speaker Module used with the ACU-1000	\$2,061	\$2,145.10
5040-602400	HSP-4A Module - Handset Speaker Module used with the ACU-T	\$2,010	\$2,094.75
5040-632200	HSP-2IP Handset Speaker Module	\$2,061	\$2,145.10
5041-100000	CIM-2A Module - Console Interface Module used for spare module for the SNV-12 Chassis	\$999	\$1,057.35
5041-200000	NXU-2A Network eXtension Unit - (Desktop, 110 VAC to + 12V DC Powered, 115/220 VAC 50/60Hz).	\$723	\$828.40
5050-300000	PSTN-2 Public Switched Telephone Interface Module - used for ACU-1000 and ACU-T	\$1,296	\$1,347.10
5050-330000	PSTN-2IP Public Switched Telephone Interface Module	\$1,297	\$1,347.10
5060-100000	ACU-M Unit - (4) audio interfaces, AC/DC power cord, accessory kit, mounting bracket, power supply, and training CD.	\$4,317	\$4,499.20
5060-100300	Spare mounting bracket	\$47	\$50.35
5060-107000	ACU-M Case Option - With the ACU-M, includes battery and battery back up.	\$5,020	\$5,226.90
5060-107500	ACU-M Case Option - Without the ACU-M	\$975	\$1,017.45
5060-109000	ACU-M Network Option - enables two VoIP channels and WAIS capability	\$533	\$558.60
5060-119000	ACU-M Bundle Kit - Includes VoIP/Network-enabled ACU-M, (4) interface cables, transportable case with battery and a charger, 110/220V power supply and AC/DC power cords.	\$5,020	\$5,326.65
5060-800000	ARA-1 (Desktop, 110 VAC to +12V DC Powered, 115/220VAC 50/60Hz) <i>External equipment interface cables for the ARA-1 must be ordered separately.</i>	\$1,502	\$1,566.55
5060-820000	ARA-1 5 Pack - Five ARA-1 Units	\$5,700	\$5,985.00

<b>PART NUMBER</b>	<b>DESCRIPTION</b>	<b>OLD PRICE</b>	<b>PRICE EFF. 6/1/13</b>
5061-100000	CPM-3 Control Processor Module - used for spare module for the SNV-12 Chassis	\$999	\$917.70
5061-300000	SCM-1 Radio/SIP Interface Module	\$2,101	\$2,185.00
5061-330000	SCM-2 Radio/SIP Interface Module	\$2,101	\$2,185.00
5070-400000	LP-2 Local Phone Set Module		\$1,347.10
5070-430000	LP-2 IP Local Phone Set Module	\$1,297	\$1,347.10
5890-694000	Rack Slides - used with NRU-600 and PPS-100	\$281	No longer available
5930-594000	Rack Slides - used with RTU-292	\$281	\$304.00
5930-595000	RTU-292 Voice Prompt Option - Female, English	\$402	\$418.95
5930-596000	RTU-292 Local Phone Option	\$352	\$369.55
5951-707000	Extender Card Assembly	\$66	\$70.30
5951-800000	SNV-12 Standard Voter Chassis - Rack Mount, AC/DC Powered, includes Card Cage, PSM-1A Power Supply Module, CIM-2A Console Interface Module, and CPM-3 Control Processor Module	\$4,618	\$4,867.80
5951-813000	PSM-1A Power Supply Module - for use with ACU-1000 and SNV-12	\$999	\$1,037.40
5951-833000	PSM-1IP Power Supply Module	\$999	\$1,137.15
5951-896024	SNV-12 Expansion Cable to Second Chassis option - up to 24 sites	\$180	\$190.00
5951-896036	SNV-12 Expansion Cable to Second and Third Chassis option - up to 36 sites	\$296	\$309.70
5952-112000	SVM-2 Site Voter Module - up to 12 per chassis	\$821	\$877.80
5960-707000	ACU-Terminal Block, 3.50" - 19" rack panel for multiple STU-III Option Power	\$232	N/A
5960-708000	ACU-Terminal Block, 1.75" - 19" rack panel for multiple STU-III Option Power	\$200	N/A
5960-796000	RTU-292 STU-III Phone Option	\$392	N/A
5961-200000	ACU-1000 Chassis	\$3,387	\$3,531.15
5961-200160	Expansion Option Cable and Number Kit	\$271	\$279.30
5961-213000	CPM-4 Control Processor Module - used for the ACU-1000 and ACU-T	\$1,477	\$1,536.15
5961-217000	LP-1 Local Phone Set Module - used for ACU-1000 and ACU-T	\$1,296	No longer available
5961-220000	ACU-1000 Required Equipment Bundle - Includes the ACU-1000 Card Cage, PSM-1A Power Supply Module, CPM-4 Control Processor Module, and HSP-2A Handset Speaker Module	\$7,899	\$8,229.85
5961-230000	ACU-2000IP Required Equipment Bundle - Includes the ACU-2000IP Card Cage, PSM-1IP Power Supply Module, CPM-6 Control Processor Module, and HSP-2IP Handset Speaker Module	\$10,523	\$10,967.75
5961-231000	ACU-2000IP Chassis	\$3,387	\$3,531.15
5961-233000	CPM-6IP Control Processor Module	\$5,020	\$5,226.90
5961-237000	LP-1IP Local Phone Set Module	\$1,297	N/A
5961-281238	Adaptor Cable ( <i>cabeling costs increased substantially</i> )	\$47	\$90.25
5961-294001	ACU-1000 RX AP-1 RX Audio Processor Module Assembly	\$1,296	N/A
5961-294002	ACU-1000TX AP-1 TX Audio Processor Module Assembly	\$1,296	N/A

PART NUMBER	DESCRIPTION	OLD PRICE	PRICE EFF. 6/1/13
5961-295000	ACU-1000 STU-III Phone Option - use with DSP-2 for STU-III Interface	\$674	\$698.25
5961-296000	ACU-1000 Battery Backup Option	\$222	\$229.90
5961-299000	LE-10 4-Wire Audio Remote with Handset & Speaker - used with ACU-1000	\$684	\$708.70
5961-299001	LE-20 4-Wire Audio Remote with Desktop Microphone and Speaker - used with ACU-1000	\$965	\$1,007.95
5961-299002	LE-30 Remote Station - used with ACU-1000	\$985	\$1,027.90
5961-299005	LE-40 Remote Speaker Microphone Assembly - used with ACU-1000	\$1,106	\$1,157.10
5961-299008-01	Kenwood Channel Change Option (for Kenwood X80 series radios)	\$734	\$768.55
5961-299008-02	Kenwood Channel Change Option (for Kenwood X150/X180 series radios)	\$623	\$648.85
5961-300000	NRU-600 DSP Noise Reduction Unit (Rack Mount, AC/DC Powered)	\$2,042	No longer available
5961-818000	DSP-2 Radio/4-Wire Interface Module - used for ACU-1000 and ACU-T	\$1,296	\$1,347.10
5090-100000	DSP-3 Radio/4-Wire Interface with Dispatch	New	\$2,185.00
5090-130000	DSP-3 IP Radio/4-Wire Interface with Dispatch	New	\$2,185.00
5961-838000	DSP-2IP Radio/4-Wire Interface Module	\$1,297	\$1,347.10
5970-600000	RTU-292 Radio/Telephone Interface Unit	\$4,326	No longer available
5970-791300	RTU-292 Squelch Break Access Option	\$352	\$369.55
5970-791500	RTU-292 Call Logging Option	\$482	\$498.75
5970-795000	RTU-292 Radio Remote Control Option (URC-200 only)	\$352	\$369.55
5970-799000	RTU-292 DTMF Access Option	\$422	\$438.90
5040-100000	WAIS Standard – System Software	New	Consult JPS
5040-200000	WAIS Dispatch Option – System Software	New	Consult JPS
5040-100100	WAIS Standard – Software License Fee	New	\$237.50
5040-200100	WAIS Dispatch Option - Software License Fee	New	\$237.50

5970-800010	ACU-1000 Pelican Case Option Kit - Foam lined with internal rack to hold ACU-1000 with foam lining for operation when case is open	\$895	N/A
5970-800826	IOAK-CH-L - Optional carry case for IOAK antennas	\$313	No longer available
5970-900000	PTG-10 Pilot Tone Generator option	\$434	\$529.15

**Cables**

Please contact Raytheon JPS for cable part number, pricing and ordering information. Prices for non-specialty cables range from \$140.00 to \$240.00. Consult factory for specialty cables.

The following products have been added to the contract effective 2/19/10. Prices reflect 5% discount off catalog pricing. Product list updated 2/6/13 to delete and add new router – see red print below.

PART NUMBER	DESCRIPTION	OLD PRICE	PRICE EFF. 6/1/13
5961-295302	CABLE, AUDIO. ACU TO UNSELECT SPEAKER	\$29.50	Consult JPS
0314-045100	CABLE, CAT 5 (RJ-45 M/M), 100FT	\$34.63	Consult JPS

0313-070000	CABLE, CAT 5 (RJ-45 M/M), 6 FT	\$2.59	Consult JPS
5990-002003	*COMPUTER MONITOR, TOUCH SCREEN, 17 IN	\$865.87	Consult JPS
5990-001002	*COMPUTER, DESKTOP W/O MONITOR	\$965.72	Consult JPS
0313-070100	ETHERNET SWITCH, 8 PORT, 120 VAC	\$53.87	Consult JPS
0153-050001	SPEAKER, UNSELECT W/AMPLIFIER, 115VAC	\$35.91	Consult JPS
1625-141500	AC PWR STRIP, RACK MT, 14 OUTLET, 1U, 115VAC	\$67.97	Consult JPS
8070-801908	CABINET	\$2,116.13	Consult JPS
0314-045100	CABLE, CAT 5 (RJ-45 M/M), 100FT	\$34.63	N/A
0313-070000	CABLE, CAT 5 (RJ-45 M/M), 6 FT	\$2.59	N/A
5970-806001	POWER SUPPLY, RACK MOUNT, 2U, 12VDC, 50A	\$513.00	Consult JPS
<b>0313-070216</b>	<b>ROUTER, VPN/NAT, 16 PORT, RK MT, 1U, 115/230VAC</b>	<b>\$568.15</b>	
<b>0313-070221</b>	<b>ROUTER, NAT, 4 PORT, SHELF MT, 1U, 100-240VAC - (PEPLINK20)</b>	<b>\$383.46</b>	Consult JPS
<b>0313-072401</b>	<b>ETHERNET SW, RACK MT, 24 PORT, 1U, 115/230 VAC</b>	<b>\$109.24</b>	N/A
5961-291XXX-15	RADIO INTERFACE CABLES (CONSULT JPS FOR SPECIFIC PART NUMBERS AND PRICING)		Consult JPS
9999-400009	ON-SITE INSTALLATION		Consult JPS
9999-200000	MANUFACTURING LABOR HOURLY RATE	\$80.75	\$92.89
9999-400000	ENGINEERING LABOR HOURLY RATE (\$152.00/hour or \$1,216.00/8-hour day)		
0000-000001	**TRAINING, ACU	\$6,982.50	\$7,332.10
0000-000002	**TRAINING, SNV-12	\$5,690.50	\$5,975.50
0000-000308	***WAIS TECHNICAL/OPERATIONAL TRAINING	New	Consult JPS

**\*COMPUTERS WITH INSTALLED SOFTWARE**

The computers function as a command and control station(s) to operate the ACU Controller Software and the PCNXU software that will be downloaded and configured by our engineers. This solution provides a fixed site installation along with the ability to remotely access the interoperability equipment (ACU) through a network connection. The ACU Controller Software provides the capability to operate, configure and monitor the ACU's operation. The PCNXU software provides the customer with the ability to remotely establish a VoIP /RoIP audio connection between the computer and ACU switches elsewhere on the network, regardless if the network is fixed, mobile or tactical.

**TRAINING**

\*\*ACU training will consist of 16 hours of on-site training, at the customer's facilities, for up to 10 people. Students will receive a manual for reviewing and hands-on training.

\*\*SNV-12 training will consist of 8 hours of on-site training, at the customer's facilities, for up to 10 people. Students will receive a manual for reviewing and hands-on training.

\*\*\*WAIS TECHNICAL AND OPERATIONAL TRAINING – CONSULT JPS – BASED UPON SYSTEM SPECS.

**VOLUME DISCOUNT PROGRAM - PHASE 1 AND PHASE 2 ALL CATEGORIES**

The volume discount will be cumulative and over the term of the contract.

(Initial Term of Three [3] Years)

Additional Discount off Net Contract Unit Price	Cumulative Total Sales from:	Cumulative Total Sales to:
2 %	\$ 5,000,000	\$ 9,999,999
3 %	\$ 10,000,000	\$ 14,999,999
3 %	\$ 15,000,000	\$ 19,999,999
4 %	\$ 20,000,000	\$ 29,999,999
5 %	\$ 30,000,000	\$ 100,000,000+

### CONTRACTOR INFORMATION

**Contractor:** **Kenwood USA Corporation**

(Received award for Phase I and Phase II)  
P.O. Box 22745  
Long Beach, CA 90801-5745

**Contact:** Barry Morris  
**Phone:** 800-752-0986 x8280  
**Fax:** 310-761-8246  
**Email:** [bmorris@kenwoodusa.com](mailto:bmorris@kenwoodusa.com)

**Alternate Contact:** Cheryl Daly  
800-752-0986 x4469  
360-761-8246  
[cdaly@kenwoodusa.com](mailto:cdaly@kenwoodusa.com)

**Internet address:** <http://www.kenwood.net>

**Web catalog address:**

**Federal ID No.:** 95-2948901

**Supplier No.:** W6384

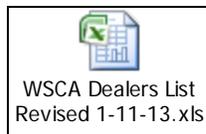
**Total Contract worth:** \$5,650,000 (estimate based on 2012 sales)

**Payment address:** **See Listed Dealer Locations by State**

**Order placement address:** **See Listed Dealer Locations by State**

**Customer Service:** Donetha Willis  
**Telephone:** 800-752-0986 x8343  
**Fax:** 310-761-8246

For a quotation or suggested retail pricing, contact one of the listed dealers below.



**Ordering procedures:**

**Credit card acceptance:** Visa

**Minimum orders:**

**Delivery time:** days After Receipt of Order (ARO)

**Payment terms:** **2% 30 days**

**Shipping destination:** Freight on Board (FOB) destination

**Freight:** **Prepaid and included**

**Warranty:** 3years for equipment manufactured after 3/09

**Category:** Category 1, Analog & Digital Portables, Digital Trunked Mobiles.



**Phase One Product Line:**

**Link to bid Specifications:**

**Currently Installed Systems, upgrade equipment, radio equipment and accessories:** **30% off Manufacturer List Price**

**Support Services:**

**Installation Services:**

\$65.00 per hour

\$65.00 per hour

**Repair Services:** \$90.00 per hour  
**Awarded Phase(s):** Phase I & II

**PHASE I PRICING**

Req. Item	Description	Qty	Unit	Percentage off Mfg List Price
1.	Base Station	1-4	EA	30%
		5-10	EA	30%
		11+	EA	30%
2.	Repeater	1-4	EA	30%
		5-10	EA	30%
		11+	EA	30%
3.	Portable Radio	1-49	EA	30%
		50+	EA	30%
4.	Mobile Radio	1-20	EA	30%
		21-100	EA	30%
		101+	EA	30%
5.	Desktop	1-20	EA	30%
		21-100	EA	30%
		101+	EA	30%
6.	Console Unit	1-9	EA	
		10+	EA	
7.	Support Services	1	HR	\$65.00
8.	Installation Services	1	HR	\$65.00
9.	Repair Services	1	HR	\$90.00
10.	Accessories		EA	30%
11.	List other Equipment		EA	

**Kenwood Phase I Equipment List is provided above an an embedded Word Document.**

**Kenwood Price Sheets**

ITEM	Mfg Name	Brand/Model#	Total Price
Portable Analog			
High VHF 136-174 Quality Category D	Kenwood	TK-280K / K2	\$498.50
UHF 450-470 Quality Category C	Kenwood	TK-380K	\$498.50

**Portable Analog  
 High VHF 136-174 Quality Category D**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	2	250
Operational Bandwidth/Maximum Frequency Separation, MHz	38	38
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	2.5
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25 / 30
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/5 selectable (Low/High)	1/5
Radiated Spurious & Harmonic Emission, dB	-60	-70
FM Noise, dB	-40	-45
Audio Distortion, % maximum	5	3
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-60	-75/-65
Spurious and Image Rejection, dB	-70	-70
Intermodulation, dB	-70	-70
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	5
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-	-
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$498.50</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		Kenwood USA
Prices are based on price list quoted above dated:		7/1/2003
Discount percentage represented by this price is		27%
Delivery - expressed in days after Receipt of Order		Less than 60 Days
Warranty Period - in excess of that required by the specifications (in days)		365 Days
% Tax required		0%
Components added to the above model to meet required specifications:		

**REQUIRED OPTIONS**

<b>Part Number</b>	<b>Description</b>	<b>Price</b>
KSC-19	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ *	\$25.55
INCLUDED	Position Rotary Channel/Mode Select Switch Option	
INCLUDED	Low Battery Alert Tone Option	
TK-280K3 / K4	Dual Tone Multi Frequency encoder and Key Pad Option	\$24.09
KLH-75B / 76B	Leather Carrying Case Option	\$30.66
KMC-25	External Speaker/Microphone Option	\$67.16
<b>OPTIONAL OPTIONS</b>		
KVC-5	Vehicular Charger/Console Option	\$248.20
INCLUDED	Flashing EEPROM	
INCLUDED	Provision for Field Software Upgrade	

**REQUIRED OPTIONS**

<b>Part Number</b>	<b>Description</b>	<b>Price</b>
NO	Secure Encryption Option	
KVC-8A	RF Power Amplifiers Option	\$646.05
INCLUDED	Paging Decoder Option	
INCLUDED	Emergency Button/Switch Option	
INCLUDED	Programmable Button/Switch Option	
INCLUDED	Push-to-talk ID Transmission Option	
INCLUDED	Alphanumeric Display Option	

**Portable Analog**

**UHF 450-470 Quality Category C**

	<b>STANDARD SPECIFICATION</b>	<b>BIDDER'S SPECIFICATION</b>
<b>GENERAL</b>		
Number of Channels/Modes/Personalities	14	250
Operational Bandwidth/Maximum Frequency Separation, MHz	20	40
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 2.5
Channel Spacing, kHz	12.5 / 25	12.5 / 25
<b>TRANSMITTER</b>		
RF Power Output, Watts	1/4 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-70
FM Noise, dB	-40	-40
Audio Distortion, % maximum	5	3
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
<b>RECEIVER</b>		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-60	-70/-62
Spurious and Image Rejection, dB	-70	-70
Intermodulation, dB	-70	-70
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	5
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-	-
<b>Price FOB Destination freight prepaid &amp; included in price</b>		<b>\$498.50</b>
<b>OTHER INFORMATION:</b>		
Prices are based on Manufacturer's price list entitled:		Kenwood USA
Prices are based on price list quoted above dated:		7/1/2003
Discount percentage represented by this price is		27%
Delivery - expressed in days after Receipt of Order		Less than 60 Days
Warranty Period - in excess of that required by the specifications (in days)		365 Days
% Tax required		0%
Components added to the above model to meet required specifications:		

**REQUIRED OPTIONS**

<b>Part Number</b>	<b>Description</b>	<b>Price</b>
--------------------	--------------------	--------------

KSC-19	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ *	\$25.55
INCLUDED	Position Rotary Channel/Mode Select Switch Option	
INCLUDED	Low Battery Alert Tone Option	
INCLUDED	Alphanumeric Display Option	
TK-380K4	Dual Tone Multi Frequency encoder and Key Pad Option	\$36.50
KLH-75B / 76B	Leather Carrying Case Option	\$30.66
KMC-25	External Speaker/Microphone Option	\$67.16
<b>OPTIONAL OPTIONS</b>		
KVC-5	Vehicular Charger/Console Option	\$248.20
INCLUDED	Flashing EEPROM	
INCLUDED	Provision for Field Software Upgrade	
NO	Secure Encryption Option	
KVC-8A	RF Power Amplifiers Option	\$646.05
INCLUDED	Paging Decoder Option	
INCLUDED	Emergency Button/Switch Option	
INCLUDED	Programmable Button/Switch Option	
INCLUDED	Push-to-talk ID Transmission Option	

### CONTRACTOR INFORMATION

**Contractor:** **Harris RFCD, A Division of Harris Corporation**  
(formerly M/A COM of Tyco Electronics)

(Received award for Phase I and Phase II)

<b>Contact:</b> Daphne Monroe	<b>Alternate Contact:</b> Sandy Robbins
<b>Email:</b> <a href="mailto:dmonroew@harris.com">dmonroew@harris.com</a>	<a href="mailto:srobbs06@harris.com">srobbs06@harris.com</a>
<b>Phone:</b> (434) 455-9231	(434) 385-2814
<b>Fax:</b> (434) 385-2810	
<b>Corporate Contact:</b> Chris Chaffee	<b>Alternate Contact:</b> Brian Beatty
<b>Email:</b> <a href="mailto:cchaffee@harris.com">cchaffee@harris.com</a>	<a href="mailto:bbeatt01@harris.com">bbeatt01@harris.com</a>
<b>Phone:</b> (434) 485-7951	(817) 422-2602
<b>Fax:</b> (321) 409-4393	
<b>Internet address:</b> <a href="http://www.harris.com">www.harris.com</a>	<b>Area Sales Manager:</b> Jennine Weber
<b>Web catalog address:</b>	<b>Service Territory:</b> Washington, Alaska, Idaho, Montana, and Wyoming
<b>Federal ID No.:</b> 34-0276860	
<b>Supplier No.:</b> W2781	
<b>Total Contract worth:</b> \$9,200,000 (estimate based on 2012 sales)	
<b>Customer Service:</b> Customer Care Center	<b>E-mail:</b> <a href="mailto:pspc_custfocus@harris.com">pspc_custfocus@harris.com</a>
<b>Telephone:</b> (800) 368-3277	
<b>Fax:</b> (321) 409-4393	
<b>Order Placement</b>	
<b>Address:</b> Harris, RFCD, PSPC Attn: Customer Care Center 221 Jefferson Ridge Pkwy Lynchburg, VA 24501	
<b>Payment address:</b> Harris Corporation 221 Jefferson Ridge Pkwy Lynchburg, VA 24501	<b>Order placement address:</b> 221 Jefferson Ridge Pkwy Lynchburg, VA 24501
<b>Ordering procedures:</b> Call Sales Contact above with Purchase Order	
<b>Credit card acceptance:</b> MasterCard, Visa	
<b>Delivery time:</b> Approximately 4 to 6 weeks after receipt of required information and contingent upon on backlog at the time of order	
<b>Payment terms:</b> 1% 10 days	
<b>Shipping destination:</b> Freight on Board (FOB) destination	
<b>Freight:</b> Prepaid and included	
<b>Category:</b> Category 1, Category 4 - Gateway Devices.	
<b>Equipment Line items:</b>	
<b>Accessory Equipment:</b> 26% discount off Manufacturer Standard Retail Price (manufactured products and accessories in category "N" or "C" within the Harris RFCD Product and Services Catalog).	
<b>Link to bid</b>	<a href="http://www.ga.wa.gov/pca/bids/02702-Phase2-Category4.doc">http://www.ga.wa.gov/pca/bids/02702-Phase2-Category4.doc</a>
<b>Specifications:</b>	<a href="http://www.ga.wa.gov/pca/bids/02702-Phase2-Category1.zip">http://www.ga.wa.gov/pca/bids/02702-Phase2-Category1.zip</a>
<b>Awarded Phase(s):</b> Phase I & II	

The following companies are authorized resellers of Harris radio equipment. They are authorized to accept orders, manage delivery of products and services, and invoice and receive payments under all of the terms and conditions of this contract.

**Service Territory:** Washington and Oregon customers      New Hampshire customers

**Company Name:** Pacific Electronics, Inc.  
**Address** 1220 Tracey Lane SE  
Lacey, WA 98503  
**Contact Person:** Gary Palmer, President

**E-mail:** [gpalmer@pacele.com](mailto:gpalmer@pacele.com)  
**Phone:** (360) 459-5212  
**FAX:** (360) 459-4041

Wright Communications  
711 Riverwood Drive  
Pembroke, NH 03275  
Michael D. Lemieux, Chief Technical  
Officer and Managing Partner  
[Mike.Lemieux@wright2way.com](mailto:Mike.Lemieux@wright2way.com)  
(603) 228-8148  
(603) 225-7369

Reference embedded list of Harris Authorized Dealer Network updated December 2012. Contract terms, conditions, products and pricing shall apply to all contract sales and Harris shall continue to report all contract sales, including those made by authorized dealers.



Contract product pricing shall be 26% off Harris branded equipment list (class “N” and “C”) for catalog items. Reference the embedded list for product descriptions and to access the Harris MSRP / List Price information, contract customers should register at the following link: <https://premier.pspc.harris.com/infocenter/default.jsp>



## CONTRACTOR INFORMATION

**Contractor:** [Motorola Solutions, Inc.](#)

(Received award for Phase I)

Note: Correspondence must be addressed to Motorola Solutions, Inc., C/O Sales Contact.

**Contact:** Joe Mann

**Phone:** (425) 896-2332

**Fax:** Fax: 425.896.2301

**Email:** [Joe.Mann@motorolasolutions.com](mailto:Joe.Mann@motorolasolutions.com)

**Internet address:** [www.motorola.com](http://www.motorola.com)

**Web catalog address:** [http://www.motorola.com/governmentandenterprise/northamerica/en-us/solution.aspx?navigationpath=id\\_804i](http://www.motorola.com/governmentandenterprise/northamerica/en-us/solution.aspx?navigationpath=id_804i)

**Federal ID No.:** 36-1115800

**Supplier No.:** W13573

**Total Contract worth:** \$78,500,000 (estimate based on 2012 sales)

**Payment address:** Customers in participating states will be requested to remit their payments to the following address:

Motorola, Inc. 13108 Collections Center Drive, Chicago, IL 60693

**Payment address:** Motorola Solutions, Inc.  
PO Box 404059  
Atlanta, GA 30384-4059

**For Montana**

**Order placement address:** Motorola Solutions, Inc.  
18200 NE Union Hill Rd.  
Suite 200  
Redmond, WA 98052

**Customer Service:** VACANT

**Telephone:** 425-896-2356

**Fax:** 425-896-2301

**Ordering procedures:**

**Credit card acceptance:** Visa, MasterCard

**Minimum orders:**

**Delivery time:** Please refer to individual category for delivery schedule, which varies by product and category bid.

**Payment terms:** 0% 30 days

**Shipping destination:** Freight on Board (FOB) destination

**Freight:** Prepaid and included

**Palletization:** N/A

**Category:**

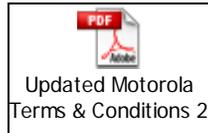
**Equipment Line items:**

**Link to bid Specifications:**

**Link to Price Sheets:**

**Awarded Phase(s):** Phase I Only

Updated Glossary Added to Motorola Phase I Award



This Updated Glossary inserted above is incorporated by reference into the WSCA Contract and contains definitions of terms contained therein and will supersede and prevail over any contrary terms or definitions in the contract. The effective date for these updated terms and conditions is March 29, 2009 (Those terms were extended until Oct. 29, 2011). Some of the terms listed below have been updated in the 2009 version of contract terms. Where they conflict, the 2009 terms prevail. All terms that are not updated in the 2009 contract terms are still valid and are concurrently active for contract purchases.

Listed below are the old contract terms (negotiated in 2003). Some of them are still valid and active; some have changed and are present in the 2009 version of contract terms listed above in the PDF document. Please see the WSCA Contract Administrator for questions and clarification on the contract.

Occurrence. An occurrence, as referenced in Section II, Paragraph 38, Limitation of Liability” means only a single sales transaction, including both a purchase of equipment only and a purchase of a system. It does not mean or refer to a claim by a purchaser, end user, or any other entity.

Total Liability. Contractor’s total liability under the contract shall not exceed the following amounts:

1. FOR SYSTEM PURCHASES. THE GREATER OF \$10,000,000 OR THE CONTRACT PRICE OF THE SYSTEM.
2. FOR EQUIPMENT ONLY PURCHASES. THE LIMITATION OF LIABILITY PROVISION SHALL APPLY NOTWITHSTANDING ANY CONTRARY PROVISION IN THIS AGREEMENT OR ANY ATTACHMENTS, ADDENDUMS, OR EXHIBITS. EXCEPT FOR PERSONAL INJURY OR DEATH, CONTRACTOR’S LIABILITY ARISING FROM THIS CONTRACT WILL BE LIMITED TO THE DIRECT DAMAGES RECOVERABLE UNDER LAW; AND LIMITED TO A TOTAL OF \$10,000,000 (TEN MILLION DOLLARS) OF LIABILITY WITHIN EACH PARTICIPATING STATE, OR THE TOTAL MOTOROLA WSCA CONTRACT 02702 YEARLY (JAN. TO DEC.) SALES IN THE YEAR IN WHICH THE LIABILITY OCCURRED, WHICHEVER IS GREATER. EACH STATE WITH WHOM MOTOROLA HAS SIGNED A PARTICIPATING ADDENDUM IS IDENTIFIED AS A PARTICIPATING STATE.

DIRECT DAMAGES. DIRECT DAMAGES, AS REFERENCED IN SECTION II, PARAGRAPH 38, LIMITATION OF LIABILITY MEANS ACTUAL DIRECT DAMAGES INCURRED AND DOES NOT INCLUDE SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

[WSCA States. PRICING AND ADJUSTMENTS](#)

Unless otherwise stipulated, all bids must include unit prices and extensions where applicable and be otherwise in the format requested. This will be the baseline pricing to determine offerors score and baseline price level. The State of Washington and participating WSCA states are also looking for additional volume based pricing for consideration. The volume discount program offered will be evaluated using price breaks identified in the Price Sheets per category. If no price break are given by a Proposer(s), then the highest discount rate offer by the Proposer(s), will be used to compare that proposal with Proposer's that offer a volume discount program.

All bid pricing is to be FOB Destination, freight prepaid and included, for any destination within the State of Washington and participating WSCA states, unless stipulated differently in the Communication Equipment Category specification and price sheet section.

Pricing shall remain firm and fixed for the initial 12-months of the contract, unless defined and approved in a Participating Addendum

Adjustments in pricing will be considered after firm fixed price period on a pass through basis only. A minimum of 60 calendar days advance written notice of price increase is required which is to be accompanied by sufficient documentation to justify the requested increase. Documentation must be based on United States published indices such as the Producer Price Index. Acceptance will be at the discretion of the State Procurement Officer and shall not produce a higher profit margin than that established on the original contract pricing. Approved price adjustments shall remain unchanged for at least 365 calendar days thereafter.

During the term of this contract, should the contractor enter into pricing agreements with other customers providing greater benefits or lower pricing, contractor shall immediately amend the state contract to provide similar pricing to the state if the contract with other customers offers similar usage quantities, and similar conditions impacting pricing. Contractor shall immediately notify the state of any such contracts entered into by contractor. When the state is comparing different lower contract pricing the management fee will be deducted from the WSCA contract.

*This provision applies only within WSCA PARTICIPATING STATES (as defined in this document, above) and shall not apply to existing contracts, system packages, or one time equipment purchases, services, or international sales. For purposes of this section, the definition of 'customers' shall not include Contractor's dealers, distributors and resellers, or sales to federal government.*

#### **TECHNICAL ADVANCES/UPGRADES**

During the service life of the equipment, the contractor agrees to install, at no additional cost to the end user, all manufacturers' required retrofit upgrades within 90 days of the date the upgrade is introduced by the manufacturer. Required retrofits are all retrofits that are required to keep the equipment operating and functioning as intended at the time of purchase. *"Service Life" as used in this section shall be five years from final inspection and acceptance by the purchaser. This does not including periodic software releases which are intended to offer new features or enhancements not available at the time of original purchase.*

#### **NEW SYSTEM SOFTWARE AND FIRMWARE UPDATE**

Provide Required Firmware, Software updates at no cost for 5 years after last unit being purchased from this RFP. . Required firmware and software updates are all updates that are required to keep the equipment operating and functioning as intended at the time of purchase. *Manufacturers are not responsible for update installation costs. Proposer's shall submit a copy of their software licensing agreement with their proposal. This does not including periodic software releases which are intended to offer new features or enhancements not available at the time of original purchase.*

SOFTWARE LICENSE:

Customer and any Purchasing Entity or End User purchasing from this Agreement hereby accept and agree to abide by all of the terms and restrictions of the Motorola Software License Agreement attached to Motorola's bid and incorporated into this agreement, when purchasing or using any Motorola Software or firmware. Any Non-Motorola Software and Open Source Software is licensed to Customer in accordance with the standard license, terms, and restrictions of the copyright owner on the Effective Date.

#### SYSTEM SALES:

If a Purchasing Entity intends to purchase a system using pricing from the WSCA contract, Motorola will prepare a proposal that includes the technical, contractual, and implementation documents that are appropriate for that system. Any system sale will be subject to the specifications of the technical and implementation documents and to the terms of the communications system agreement and its exhibits or other applicable contract documents.

#### SUPPORT SERVICES, MAINTENANCE SERVICES, AND PROFESSIONAL SERVICES:

If a Purchasing Entity intends to purchase services from Motorola, the sale of services will be subject to the terms of the appropriate Motorola maintenance, professional services, or other standard agreement appropriate to the type of services being sold, together with the technical and implementation exhibits applicable to the services.

#### WARRANTY(IES)

Proposer(s) will submit a copy of every warranty as an attachment to bid and items delivered under this contract will also be accompanied by a copy of the applicable warranties. Unless otherwise specified, the full parts and labor warranty period shall be for a minimum period of one (1) year after receipt and acceptance of materials or equipment by the Purchaser. *All warranties supplied by the manufacturer shall be consistent with the provisions of the UCC, chapter 62A RCW unless otherwise specified in part 3, equipment Specifications.* All materials or equipment provided shall be new, or refurbished and manufacturer certified, of the latest model or design and of recent manufacture. All tower parts must be new and of the latest design.

Successful contractor(s) shall provide product support (*required to keep equipment operating and functioning as intended at the time of purchase*) for 7-5 years after last unit being purchased from this RFP.

**CONTRACTOR DISCLAIMS ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

*In the event of conflict between contract terms and conditions and any warranty submitted by the contractor, to afford the state maximum benefits, the contract terms and conditions shall prevail.*

WSCA and Motorola agree as follows:

Section 9 of Part III, "Special Terms and Conditions," of WSCA RFP No. 02702 is amended by inserting the words "parts, or accessories" in the second-to-last sentence of the section. As amended the sentence now reads:

This provision applies only within WSCA Participating States (as defined in the document above) and shall not apply to existing contracts, system packages, one time equipment purchases, services, international sales, parts, or accessories.

Contract users may purchase accessories for any listed Motorola radio subscriber unit. Available accessories are listed on the Motorola Electronic Catalog pages associated with each subscriber unit that is available through the contract.

If accessories listed on the Electronic Catalog pages are purchased at the time of purchase of a radio unit, the discount level associated with the radio will apply to the purchased accessories.

If accessories are purchased on a stand-alone basis from the Electronic Catalog pages available on the contract, a 20% discount shall apply to any accessory purchase.

Amendments Effective July 1, 2006:

Effective July 1, 2006, Motorola has reduced the prices on all applicable products available through the WSCA Contract by three percent (3%). This price reduction is reflected in the WSCA RFP DISCOUNT MATRIX dated July 1, 2006, attached below and in the list of Representative Radio Models, attached below. No further volume discounts shall apply to Motorola products available on the WSCA Public Safety Radio Contract. Any reference to "volume discount" or "cumulative discount" is struck.

When calculating the price of a product purchased through the WSCA contract, Motorola and WSCA contract users shall use Motorola's then-current price book and apply the discount level indicated in the WSCA RFP DISCOUNT MATRIX dated July 1, 2006, which is attached below. In order to conform with the parties' intent to replace the pricing quoted by Motorola in its 2003 RFP 02802 response and ensuing contract with Motorola's current pricing, which shall be updated at least annually, any reference in WSCA RFP or Contract 02702, as amended, to the pricing quoted by Motorola in its 2003 RFP Response shall be replaced with an appropriate reference to Motorola's current price list.

Effective, July 1, 2006, the general WSCA administrative fee for purchases made from the WSCA Public Safety Radio Contract shall be lowered from one and one-half percent (1.5%) to one-half percent (.5%). Administrative fees charged by Participating States shall not be affected by this reduction. The total administrative fee charged by the State of Washington shall be one and one-half percent (1.5%), which includes both the WSCA administrative fee and the State of Washington administrative fee.

MOTOROLA WESTERN DIVISION SALES OFFICES

WA08 – Redmond, WA 18200 NE Union Hill Rd. Suite 200 Redmond, WA 98052 425-896-2340 fax 425 896-2302	OR02 - Lake Oswego, OR 4900 S.W. Meadows Rd, #475  Lake Oswego, OR 97035 No main phone number. fax 503 697-4670	AZ43 - Phoenix, AZ 2900 South Diablo Wy.  Tempe, AZ 85282 602 271-7500 fax 602 438-1608
CA25 - San Diego, CA (Div HQ) 6420 Sequence Drive San Diego, CA 92121 800 445-3620 toll-free 858 578-2222 direct	CO01 - Engelwood, CO 9800 Mount Pyramid Ct. Suite 200 Englewood, CO 80112 303 689-2800 fax 303 689-2900	TX48 Dallas, TX 2410 Luna Road, Ste 132 Carrollton, TX 75006 972 277-4600 or 800 635-0200 fax 972 277-4611
TX09 - Houston, TX 1140 Cypress Station Suite 300 Houston, TX 77090 281 537-3600 fax 281 537-3617	TX32 - Austin, TX 7700 W. Parmer Lane Bldg., B-PL34 Austin, TX 78729 512 996-6974	CA08 - Los Angeles, CA 312 E. 1st. Street, Suite 520 Los Angeles, CA 90012 No main phone number. fax 213 628-2470
CA18 - Van Nuys, CA 7720 Sepulveda Blvd., Suite B Van Nuys, CA 92450 818 786-1092 fax 818 786-1294	CA78 - Motorola FSO California 10061 Riverside Dr., PMB 1046 Toluca Lake, CA 91602 818 843-3068 fax (same as above)	CA36 - Irvine, CA 1900 Main Street, Suite 300 Irvine, CA 92614 949 399-4000 fax 949 437-4240
CA57 - Irvine, CA (warehouse) 17835 Skypark Circle, Suite C Irvine, CA 92614 949 442-1644 fax 949 474-0196	NM01 - Albuquerque, NM 2501 San Pedro N.E., Suite 202 Albuquerque, NM 87110 505 875-1999 fax 505 875-1888	CA69 - Mountain View, CA 805 E. Middlefield Rd Mountain View, CA 94043 650 318-3200 fax 650-318-3310
Las Vegas, Nevada PO Box 98098 Las Vegas, Nevada 89193 775-853-7862 fax 775-853-0924	CA67 - Los Angeles, CA 725 S Figueroa Ave, Suite 1870 Los Angeles, CA 90017 213 362-6726 fax 213 627-3379	Shawnee, OK 2309 Troon Circle Shawnee, OK 74801 405-395-9448 fax 405-878-6841
Layton, Utah PMB#194 2146 North Main Street, Suite 530 Layton, Utah 84051 801-571-7649 fax 801-571-7258	Billings, Montana 4603 Alkali Creek Road Billings, MT 59106 406-245-3309 fax 406-245-1567	Anchorage, Alaska PO Box 230882 Anchorage, AK 99532 907-261-5170 fax 907-346-4303
Boise, Idaho 11548 W. Rader Dr. Boise, ID 83713 208-377-2080 fax 208-377-2085		

The previous use of a second and third discount column (which previously showed a lower price discounts for the states of: Oregon, Colorado, Utah, Oklahoma, Kansas and New Mexico) was discontinued and all customer orders regardless of customer's location will use the single price discount column shown below.

**DISCOUNTS ON PHASE ONE PRODUCTS & SERVICES**

<b>MOTOROLA - WSCA DISCOUNT MATRIX</b> (Revised 01/01/13)	
<b>RADIO MODEL SERIES (REFER TO MANUF. PRICE PAGES):</b>	<b>DISCOUNT %</b>
<b>P25 DIGITAL MOBILE/DESKTOP/CONSOLETTES RADIOS:</b>	
*APX7500/6500 MOBILE	25%
XTL5000 MOBILE	21.5%
XTL5000 HIGH PERFORMANCE MOBILE DATA MODEMS	10%
XTL2500 MOBILE	21.5%
XTL1500 MOBILE	21.5%
*MOTOTRBO MOBILE	12%
<b>P25 DIGITAL PORTABLE RADIOS:</b>	
*APX7000/7000XE/6000 PORTABLES	25%
ASTRO XTS5000	21.5%
ASTRO XTS2500	26.5%
ASTRO XTS1500	18%
PDR3500 PORTABLE REPEATER	8.5%
*MOTOTRBO PORTABLES	12%
<b>ANALOG MOBILE/DESKTOP RADIOS:</b>	
PM1500 (P25 UPGRADEABLE)	30%
CDM SERIES (750, 1250, 1550, 1550LS+)	28%
CM200, CM300	15%
PM400	15%
<b>ANALOG PORTABLE RADIOS:</b>	
HT1250, HT1250LS+, HT1550XLS	35%
HT750	35%
EX500, EX600XLS	20%
CP100, CP150, CP200	20%
MT1500 (P25 UPGRADEABLE)	23%
PR1500 (P25 UPGRADEABLE)	30%
PR860	20%
PR400	15%
<b>INFRASTRUCTURE / FIXED EQUIPMENT / OTHER:</b>	
*MOTOTRBO BASE/REPEATER STATIONS	12%
*GTR8000 BASE/REPEATER STATIONS	18%
DIGITAL VEHICULAR REPEATER (DVR) VHF/UHF/700/800 BAND	10%
QUANTAR BASE/REPEATER STATIONS	23%
MTR3000 BASE/REPEATER STATIONS	30%
DIU-3000 DIGITAL INTERFACE UNITS	15%

<b>MOTOROLA - WSCA DISCOUNT MATRIX (Revised 01/01/13)</b>	
<b>RADIO MODEL SERIES (REFER TO MANUF. PRICE PAGES):</b>	<b>DISCOUNT %</b>
ASTRO-TAC 3000 VOTING SYSTEM	15%
SPECTRA-TAC VOTING SYSTEM	15%
QUANTAR VOTING RECEIVERS	15%
GOLD ELITE CONSOLES (Gateway)	18.5%
TRUNKED CONTROLLERS (Gateway)	18.5%
Trident PassPort Trunking Infrastructure	18.5%
Trident LTR Trunking Infrastructure	18.5%
MOTOBIDGE (Gateway)	10%
STR3000 SIMULCAST / DATA BASE STATIONS	15%
MCC5500 / MCC7500 CONSOLES	15%
CANOPY	15%
PTP / POINT TO POINT WIRELESS BROADBAND NETWORK	15%
POWERLINE MU / IN BUILDING BROADBAND DISTRIBUTION	15%
HOTZONE DUO	15%
RAD / MULTIPLEXERS	10%
EWLAN INFR & ACCESS POINTS	40%
MCC1000/2000/2500, COMMAND STAR LITE CONSOLES	10%
MC3000 DIGITAL DESKTOP CONSOLES	10%
MINITOR RECEIVERS	35%
STANDALONE ACCESSORIES ORDERED WITHOUT RADIOS	20%
Asset Management Software & Services	20%
Support Services	\$168.75 per hr
Installation Services	\$168.75 per hr
Repair Services	\$168.75/hr
Most services, such as engineering, program management, training, etc., are usually sold on a per man day basis, rather than an hourly basis, the daily rate is \$1,350. per Man Day (8 hours).	

Last amended 01/01/13

\*Indicates new products added to this contract effective 4/30/10.

Excluding the state of Washington, the above discounts apply to states with purchasing fees not exceeding one percent (1%).

Upon request and at no charge Motorola will provide contract customers a copy of the manufacturer's reference product price list to determine net contract price(s) after application of above discount.

**MOTOROLA REPRESENTATIVE WSCA CONTRACT RADIO MODELS**

**Revised  
 10/20/06**

The following Motorola radio models are representative examples of the radios available on the WSCA contract. Contract users are requested to contact Motorola for other versions & frequency bands of each series of radio model. The WSCA RFP required Manufacturer price pages for the complete line of Motorola radios available on the WSCA contract are on file with WSCA Purchasing. The representative prices listed will be higher in states that charge an administrative fee.

The various types of Motorola radios are listed by frequency band first, then by radio category:

<b>MODEL NO.</b>	<b>DESCRIPTION</b>	<b>WSCA CONTRACT PRICE</b>
<b>VHF FREQUENCY BAND (136-174 MHZ):</b>		
<b>P25 DIGITAL TRUNKED PORTABLE RADIOS:</b>		
H18KEF9PW6_N w/options: Q806,H38,Q361,H14,H301, NNTN4435, NTN1667	XTS5000, VHF, 6 watt, 512 channel, model 2, with charger & spare battery	\$3,735.82
H46KDC9PW5_N w/options: Q574,H301,NTN9815,NTN1667	XTS2500, VHF, 5 watt, 48 channel, model 1, with charger & spare battery	\$1,995.53
H66KDC9PW5_N w/options: Q574,H301,NTN9815,NTN1667	XTS1500, VHF, 5 watt, 16 channel, model 1, with charger & spare battery	\$1,451.40
<b>P25 DIGITAL TRUNKED MOBILE RADIOS:</b>		
M20KTS9PW1_N w/options: G806,G51,G361,G114,G89,G67, G79,G94,W22,B18	XTL5000, VHF, 110 watt, 512 channel, model W5, remote mount	\$4,119.68
M20KSS9PW1_N w/options: G806,G51,G361,G114,W81,G89,G67, G79,G94,W22,B18	XTL5000, VHF, 50 watt, 512 channel, model W5, remote mount	\$3,753.09
M20KSS9PW1_N w/options: G806,G51,G361,G89,G66,G79,G94, W22,B18	XTL5000, VHF, 50 watt, 512 channel, model W5, front mount	\$3,533.29
M21KTM9PW1_N w/options:	XTL2500, VHF, 110 watt, 255	\$3,696.56

G806,G51,G361,G89,G67, G442,G444,W22,B18	channel, remote mount	
M21KSM9PW1_N w/options: G806,G51,G361,G89,G67, G442,G444,W22,B18	XTL2500, VHF, 50 watt, 255 channel, remote mount	\$3,286.56
M21KSM9PW1_N w/options: G806,G51,G361,G89,G66, G442,G444,W22,B18	XTL2500, VHF, 50 watt, 255 channel, front mount	\$3,145.52
M28KSS9PW1_N w/options: G788,G89	XTL1500, VHF, 50 watt, 48 channel, front mount	\$1,828.60

**P25 DIGITAL CONVENTIONAL PORTABLE RADIOS:**

H18KEF9PW6_N w/options: Q806,H35,H14,H301,NNTN4435,NTN1667	XTS5000, VHF, 6 watt, 512 channel, model 2, with charger & spare battery	\$2,950.82
H46KDC9PW5_N w/options: Q811,H301,NTN9815,NTN1667	XTS2500, VHF, 5 watt, 48 channel, model 1, with charger & spare battery	\$1,543.50
H66KDC9PW5_N w/options: Q811,H301,NTN9815,NTN1667	XTS1500, VHF, 5 watt, 16 channel, model 1, with charger & spare battery	\$1,134.88

**P25 DIGITAL CONVENTIONAL MOBILE RADIOS:**

M20KTS9PW1_N w/options: G806,G48,G114,G89,G67, G79,G94,W22,B18	XTL5000, VHF, 110 watt, 512 channel, model W5, remote mount	\$3,334.68
M20KSS9PW1_N w/options: G806,G48,G114,W81,G89,G67, G79,G94,W22,B18	XTL5000, VHF, 50 watt, 512 channel, model W5, remote mount	\$2,968.09
M21KTM9PW1_N w/options: G806,G48,G89,G67, G442,G444,W22,B18	XTL2500, VHF, 110 watt, 255 channel, remote mount	\$2,876.56
M21KSM9PW1_N w/options: G806,G48,G89,G66, G442,G444,W22,B18	XTL2500, VHF, 50 watt, 255 channel, front mount	\$2,325.52

M28KSS9PW1_N w/options: G790,G89	XTL1500, VHF, 50 watt, 48 channel, front mount	\$1,418.60
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**P25 DIGITAL CONVENTIONAL BASE/REPEATER STATION RADIOS:**

T5365 w/options: X530,X806_D,X580,X432	QUANTAR, VHF, 125 watt, 16 channel	\$11,759.44
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T5365 w/options: X330,X806_D,X580,X432	QUANTAR, VHF, 25 watt, 16 channel	\$10,827.74
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**ANALOG CONVENTIONAL PORTABLE RADIOS:**

H67KDC9PW5_N w/options: Q833,H301,NTN9815,NTN1667	MT1500, VHF, 5 watt, 48 channel, with charger & spare battery MT1500 is factory upgradeable to P25 dig.	\$993.30
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AAH79KDC9PW5_N w/options: H129,H301CE,NTN9858	PR1500, VHF, 5 watt, 32 channel, with charger & spare battery PR1500 is factory upgradeable to P25 dig.	\$913.50
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AAH25KDH9AA6_N w/options: H301,HNN9008_R	HT1250, VHF, 5 watt, 128 channel, with charger & spare battery	\$711.10
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AAH25KDC9AA2_N w/options: H301,HNN9008_R	HT750, VHF, 5 watt, 4 channel, with charger & spare battery	\$542.10
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AAH50KDC9AA1_N w/options: NNTN4851	CP200, VHF, 5 watt, 4 channel, with charger & spare battery	\$394.40
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**ANALOG CONVENTIONAL MOBILE RADIOS:**

AAM79KTD9PW5_N	PM1500, VHF, 110 watt, 255 channel, remote mount	\$1,260.00
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AAM25KKD9AA2_N	CDM1250, VHF, 45 watt, 64 channel, front mount	\$534.24
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**ANALOG CONVENTIONAL BASE/REPEATER STATION RADIOS:**

T5365 w/options: X530,X597_A,X580,X432	QUANTAR, VHF, 125 watt, 16 channel	\$9,834.44
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T5544 w/options: X330,X597,X580,X436,X153	MTR2000, VHF, 40 watt, 32 channel	\$3,699.50
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**P25 MIGRATION PLAN GATEWAY SOLUTIONS:**

To be determined for each application	TYPICAL MEDIUM SYSTEM, PER RFP SPECS, AS BID	\$2,488,183.78
To be determined for each application	TYPICAL SMALL SYSTEM, PER RFP SPECS, AS BID	\$1,785,195.50
To be determined for each application	TYPICAL ALTERNATE SMALL SYSTEM, AS BID FOR PHASE 1	\$244,473.89

**MOTOROLA REPRESENTATIVE WSCA CONTRACT RADIO MODELS**

**Revised  
10/20/06**

The following Motorola radio models are representative examples of the radios available on the WSCA contract. Contract users are requested to contact Motorola for other versions & frequency bands of each series of radio model. The WSCA RFP required Manufacturer price pages for the complete line of Motorola radios available on the WSCA contract are on file with WSCA Purchasing. The representative prices listed will be higher in states that charge an administrative fee.

The various types of Motorola radios are listed by frequency band first, then by radio category:

<b>MODEL NO.</b>	<b>DESCRIPTION</b>	<b>WSCA CONTRACT PRICE</b>
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**UHF FREQUENCY BAND (450-470 MHZ):**

**P25 DIGITAL TRUNKED PORTABLE RADIOS:**

H18SDF9PW6_N w/options: Q806,H38,Q361,H14,H301, NNTN4435, NTN1667	XTS5000, UHF, 5 watt, 512 channel, model 2, with charger & spare battery	\$3,735.82
H46SDC9PW5_N w/options: Q574,H301,NTN9815,NTN1667	XTS2500, UHF, 5 watt, 48 channel, model 1, with charger & spare battery	\$1,995.53
H66SDC9PW5_N w/options: Q574,H301,NTN9815,NTN1667	XTS1500, UHF, 5 watt, 16 channel, model 1, with charger & spare battery	\$1,451.40

**P25 DIGITAL TRUNKED MOBILE RADIOS:**

M20QTS9PW1_N w/options: G806,G51,G361,G114,G89,G67, G79,G94,W22,B18	XTL5000, UHF, 100 watt, 512 channel, model W5, remote mount	\$4,119.68
M20QSS9PW1_N w/options: G806,G51,G361,G114,W81,G89,G67, G79,G94,W22,B18	XTL5000, UHF, 40 watt, 512 channel, model W5, remote mount	\$3,753.09
M20QSS9PW1_N w/options: G806,G51,G361,G89,G66,G79,G94, W22,B18	XTL5000, UHF, 40 watt, 512 channel, model W5, front mount	\$3,533.29
M21QTM9PW1_N w/options: G806,G51,G361,G89,G67, G442,G444,W22,B18	XTL2500, UHF, 100 watt, 255 channel, remote mount	\$3,696.56
M21SSM9PW1_N w/options: G806,G51,G361,G89,G67, G442,G444,W22,B18	XTL2500, UHF, 40 watt, 255 channel, remote mount	\$3,286.56
M21SSM9PW1_N w/options: G806,G51,G361,G89,G66, G442,G444,W22,B18	XTL2500, UHF, 40 watt, 255 channel, front mount	\$3,145.52
M28SSS9PW1_N w/options: G788,G89	XTL1500, UHF, 45 watt, 48 channel, front mount	\$1,828.60

**P25 DIGITAL CONVENTIONAL PORTABLE RADIOS:**

H18SDF9PW6_N w/options: Q806,H35,H14,H301,NNTN4435,NTN1667	XTS5000, UHF, 5 watt, 512 channel, model 2, with charger & spare battery	\$2,950.82
H46SDC9PW5_N w/options: Q811,H301,NTN9815,NTN1667	XTS2500, UHF, 5 watt, 48 channel, model 1, with charger & spare battery	\$1,543.50
H66SDC9PW5_N w/options: Q811,H301,NTN9815,NTN1667	XTS1500, UHF, 5 watt, 16 channel, model 1, with charger & spare battery	\$1,134.88

**P25 DIGITAL CONVENTIONAL MOBILE RADIOS:**

M20QTS9PW1_N w/options: G806,G48,G114,G89,G67, G79,G94,W22,B18	XTL5000, UHF, 100 watt, 512 channel, model W5, remote mount	\$3,334.68
M20QSS9PW1_N w/options: G806,G48,G114,W81,G89,G67, G79,G94,W22,B18	XTL5000, UHF, 40 watt, 512 channel, model W5, remote mount	\$2,968.09
M21QTM9PW1_N w/options: G806,G48,G89,G67, G442,G444,W22,B18	XTL2500, UHF, 100 watt, 255 channel, remote mount	\$2,876.56
M21SSM9PW1_N w/options: G806,G48,G89,G66, G442,G444,W22,B18	XTL2500, UHF, 40 watt, 255 channel, front mount	\$2,325.52
M28SSS9PW1_N w/options: G790,G89	XTL1500, UHF, 45 watt, 48 channel, front mount	\$1,418.60

**P25 DIGITAL CONVENTIONAL BASE/REPEATER STATION RADIOS:**

T5365 w/options: X640,X806_D,X580,X432	QUANTAR, UHF, 110 watt, 16 channel	\$12,852.07
T5365 w/options: X240,X806_D,X580,X432	QUANTAR, UHF, 25 watt, 16 channel	\$11,420.64

**ANALOG CONVENTIONAL PORTABLE RADIOS:**

H67SDC9PW5_N w/options: Q833,H301,NTN9815,NTN1667	MT1500, UHF, 5 watt, 48 channel, with charger & spare battery MT1500 is factory upgradeable to P25 dig.	\$993.30
AAH79SDC9PW5_N w/options: H301CE,NTN9815	PR1500, UHF, 5 watt, 32 channel, with charger & spare battery PR1500 is factory upgradeable to P25 dig.	\$948.50
AAH25SDH9AA6_N w/options: H301,HNN9008_R	HT1250, UHF, 4 watt, 128 channel, with charger & spare battery	\$743.60
AAH25SDC9AA2_N w/options:	HT750, UHF, 4 watt, 4 channel,	\$574.60

H301,HNN9008_R	with charger & spare battery	
AAH50RDC9AA1_N w/options: NNTN4851	CP200, UHF, 4 watt, 4 channel, with charger & spare battery	\$422.40

**ANALOG CONVENTIONAL MOBILE RADIOS:**

AAM79QTD9PW5_N	PM1500, UHF, 110 watt, 255 channel, remote mount	\$1,330.00
AAM25SKD9PW2_N	CDM1250, UHF, 40 watt, 64 channel, front mount	\$581.76

**ANALOG CONVENTIONAL BASE/REPEATER STATION RADIOS:**

T5365 w/options: X640,X597_A,X580,X432	QUANTAR, UHF, 100 watt, 16 channel	\$10,927.07
T5544 w/options: X340,X597,X580,X436,X153	MTR2000, UHF, 40 watt, 32 channel	\$4,669.00

**P25 MIGRATION PLAN GATEWAY SOLUTIONS:**

To be determined for each application	TYPICAL MEDIUM SYSTEM, PER RFP SPECS, AS BID	\$2,488,183.78
To be determined for each application	TYPICAL SMALL SYSTEM, PER RFP SPECS, AS BID	\$1,785,195.50
To be determined for each application	TYPICAL ALTERNATE SMALL SYSTEM, AS BID FOR PHASE 1	\$244,473.89

**MOTOROLA REPRESENTATIVE WSCA CONTRACT RADIO MODELS**

**Revised  
10/20/06**

The following Motorola radio models are representative examples of the radios available on the WSCA contract. Contract users are requested to contact Motorola for other versions & frequency bands of each series of radio model. The WSCA RFP required Manufacturer price pages for the complete line of Motorola radios available on the WSCA contract are on file with WSCA Purchasing. The representative prices listed will be higher in states that charge an administrative fee.

The various types of Motorola radios are listed by frequency band first, then by radio category:

<b>MODEL NO.</b>	<b>DESCRIPTION</b>	<b>WSCA CONTRACT PRICE</b>
<b>800 MHZ FREQUENCY BAND (806-870 MHZ):</b>		
<b>P25 DIGITAL TRUNKED PORTABLE RADIOS:</b>		
H18UCF9PW6_N w/options: Q806,H38,Q361,H14,H301, HNN9031, NTN1667	XTS5000, 700/800 MHZ, 3 watt, 512 channel, model 2, with charger & spare battery	\$3,721.69
H46UCC9PW5_N w/options: Q574,H301,NTN9815,NTN1667	XTS2500, 700/800 MHZ, 3 watt, 48 channel, model 1, with charger & spare battery	\$1,995.53
H66UCC9PW5_N w/options: Q574,H301,NTN9815,NTN1667	XTS1500, 700/800 MHZ, 3 watt, 16 channel, model 1, with charger & spare battery	\$1,451.40
<b>P25 DIGITAL TRUNKED MOBILE RADIOS:</b>		
M20URS9PW1_N w/options: G806,G51,G361,G114,W81,G89,G67, G79,G94,W22,B18	XTL5000, 700/800 MHZ, 35 watt, 512 channel, model W5, remote mount	\$3,753.09
M20URS9PW1_N w/options: G806,G51,G361,G89,G66,G79,G94, W22,B18	XTL5000, 700/800 MHZ, 35 watt, 512 channel, model W5, front mount	\$3,533.29
M21URM9PW1_N w/options: G806,G51,G361,G89,G67, G442,G444,W22,B18	XTL2500, 700/800 MHZ, 35 watt, 255 channel, remote mount	\$3,286.56
M21URM9PW1_N w/options: G806,G51,G361,G89,G66, G442,G444,W22,B18	XTL2500, 700/800 MHZ, 35 watt, 255 channel, front mount	\$3,145.52
M28URS9PW1_N w/options: G788,G89	XTL1500, 700/800 MHZ, 35 watt, 48 channel, front mount	\$1,828.60
<b>P25 DIGITAL CONVENTIONAL PORTABLE RADIOS:</b>		
H18UCF9PW6_N w/options:	XTS5000, 700/800 MHZ, 3 watt, 512 channel,	\$2,936.69

Q806,H35,H14,H301, HNN9031, NTN1667	model 2, with charger & spare battery	
H46UCF9PW6_N w/options: Q811,H301,NTN9815,NTN1667	XTS2500, 700/800 MHZ, 3 watt, 512 channel, model 2, with charger & spare battery	\$2,058.00
H46UCC9PW5_N w/options: Q811,H301,NTN9815,NTN1667	XTS2500, 700/800 MHZ, 3 watt, 48 channel, model 1, with charger & spare battery	\$1,543.50
H66UCC9PW5_N w/options: Q811,H301,NTN9815,NTN1667	XTS1500, 700/800 MHZ, 3 watt, 16 channel, model 1, with charger & spare battery	\$1,134.88

**P25 DIGITAL CONVENTIONAL MOBILE RADIOS:**

M20URS9PW1_N w/options: G806,G48,G114,W81,G89,G67, G79,G94,W22,B18	XTL5000, 700/800 MHZ, 35 watt, 512 channel, model W5, remote mount	\$2,968.09
M21URM9PW1_N w/options: G806,G48,G89,G66, G442,G444,W22,B18	XTL2500, 700/800 MHZ, 35 watt, 255 channel, front mount	\$2,325.52
M28URS9PW1_N w/options: G790,G89	XTL1500, 700/800 MHZ, 35 watt, 48 channel, front mount	\$1,418.60

**P25 DIGITAL CONVENTIONAL BASE/REPEATER STATION RADIOS:**

T5365 w/options: X750,X806_D,X580,X432	QUANTAR, 800 MHZ, 100 watt, 16 channel	\$13,389.53
T5365 w/options: X250,X806_D,X580,X432	QUANTAR, 800 MHZ, 20 watt, 16 channel	\$11,337.48

**ANALOG CONVENTIONAL PORTABLE RADIOS:**

H67UCC9PW5_N w/options: Q833,H301,NTN9815,NTN1667	MT1500, 800 MHZ, 3 watt, 48 channel, with charger & spare battery MT1500 is factory upgradeable to P25 dig.	\$993.30
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**ANALOG CONVENTIONAL MOBILE RADIOS:**

M28URS9PW1_N w/options:	XTL1500, 700/800 MHZ, 35 watt,	\$1,418.60
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G790,G89 48 channel, front mount

**ANALOG CONVENTIONAL BASE/REPEATER STATION RADIOS:**

T5365 w/options: X750,X597_A,X580,X432	QUANTAR, 800 MHZ, 100 watt, 16 channel	\$11,464.53
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T5544 w/options: X450,X597,X580,X436,X153	MTR2000, 800 MHZ, 75 watt, 32 channel	\$5,579.00
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**P25 MIGRATION PLAN GATEWAY SOLUTIONS:**

To be determined for each application	TYPICAL MEDIUM SYSTEM, PER RFP SPECS, AS BID	\$2,488,183.78
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To be determined for each application	TYPICAL SMALL SYSTEM, PER RFP SPECS, AS BID	\$1,785,195.50
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To be determined for each application	TYPICAL ALTERNATE SMALL SYSTEM, AS BID FOR PHASE I	\$244,473.89
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## CONTRACTOR INFORMATION

Category 7 Microwave Antennas, Waveguide & Associated Hardware

**Contractor:** **Radio Frequency Systems, Inc.**

(Received award for Phase I and Phase II)

**Contact:** Matthew Gauvin                      Alternate Contact: Terri Doherty  
Contract Manager  
**Phone:** 203-630-3311 x1612                      203-630-3311 x1220  
**Fax:** 203-634-2017                                      203-634-2154  
**Email:** [matt.gauvin@rfsworld.com](mailto:matt.gauvin@rfsworld.com)                      [terri.doherty@rfsworld.com](mailto:terri.doherty@rfsworld.com)  
200 Pondview Drive  
Meriden, Connecticut 06450

**Internet address:** <http://www.rfsworld.com/>

200 Pondview Drive  
Meriden, CT 06450

**Web catalog address:**

**Federal ID No.:** 13-3379797

**Supplier No.:** W3302

**Total Contract worth:** \$550,000 (estimate based on 2012 sales)

**Payment address:** JP Morgan Chase                      Order placement                      Radio Frequency Systems,  
PO Box 731067                                      address:                                      Inc.  
M/F: Radio Frequency Systems                      200 Pondview Drive,  
Dallas, TX 75373-1067                                      Meriden, CT 06450

**Customer Service/Order** Christopher Collins

**Placement:**

**Customer Service:** Christopher Collins and see below by state

**Telephone:** 203-630-3311 ext. 1206

**Fax:** 203-634-2180

**Ordering procedures:** Contact Customer Service/Order Placement/

**Credit card acceptance:** Visa, Master Card, American Express

**Minimum orders:** None

**Delivery time:** 30 days After Receipt of Order (ARO)

**Payment terms:** 0% 30 days

**Shipping destination:** Freight on Board (FOB) destination

**Freight:** Prepaid and included

**Palletization:** N/A

**Category:** 7

**Equipment Line items:** See Price Sheets and note surcharge below. If comparing contract pricing please note if contractor includes surcharges that apply throughout the industry.

**Link to bid Specifications:** <http://www.ga.wa.gov/pca/bids/02702-Phase2-Category7.doc>

**Link to Price Sheets:**

**Awarded Phase(s):** Phase I & II

**Additional Distributors:** HUTTON COMMUNICATIONS  
TESSCO  
TALLEY, INC.  
INFINITY TECHNOLOGY DISTRIBUTORS AND CONSULTING  
SERVICES, LLC INC.

**REPAIR FACILITIES**

In the event that an item should need repair, the Sales Administrator will provide the customer with a Return Material Authorization (RMA) number. The sales administrator then records all pertinent information into RFS' database and advises the customer of the correct location to which the material must be shipped. Note that the RMA number must be clearly marked on the outside of the shipping container.

When the material arrives at the designated location, the receiving department updates the system showing the return as "Received". The material is then forwarded for evaluation. After the evaluation is complete, the database is again updated. Computer generated reports are issued on a daily basis to advise sales of the status of all returns.

Once sales has received the evaluation, a course of action takes place based on the reason for the return and the quality assurance evaluation. The customer is then notified and the item is either repaired or replaced. All repairs are made by RFS employees at RFS facilities.

All returns should be sent to the following locations:

All Products

Radio Frequency Systems, Inc  
 175 Corporate Court  
 Meriden, CT 06450

**CONTACTS AND PHONE NUMBERS (Revised)**

<b>STATE</b>	<b>CONTACT NAME</b>	<b>PHONE NUMBER</b>
Alaska	Christopher Collins	203-630-3311 ext 1206
Arizona	Christopher Collins	203-630-3311 ext 1206
California	Christopher Collins	203-630-3311 ext 1206
Colorado	Christopher Collins	203-630-3311 ext 1206
Georgia	Judy Zawadzki	203-630-3311 ext 1216
Hawaii	Christopher Collins	203-630-3311 ext 1206
Idaho	Christopher Collins	203-630-3311 ext 1206
Minnesota	Carrie Lenkart	203-630-3311 ext 1159
Montana	Christopher Collins	203-630-3311 ext 1206
Nevada	Christopher Collins	203-630-3311 ext 1206
New Mexico	Christopher Collins	203-630-3311 ext 1206
Oklahoma	David Mason	203-630-3311 ext 1217
Oregon	Christopher Collins	203-630-3311 ext 1206
South Dakota	Carrie Lenkart	203-630-3311 ext 1159
Utah	Christopher Collins	203-630-3311 ext 1206
Washington	Christopher Collins	203-630-3311 ext 1206
Wyoming	Christopher Collins	203-630-3311 ext 1206

**AUTHORIZED DISTRIBUTORS**

HUTTON COMMUNICATIONS		
Main Contact (inside): Stephanie Thompson (717) 841-5883 <a href="mailto:stephanie@huttoncom.com">stephanie@huttoncom.com</a>	Secondary Contact: Sharon McDonald (866) 397-3357 <a href="mailto:mcdonalds@huttoncom.com">mcdonalds@huttoncom.com</a>	Customer Service MGR: Government Sales Team VIP line: (866) 241-1792 <a href="mailto:government@huttoncom.com">government@huttoncom.com</a>
Payment address: Hutton Communications P.O. Box 201439 Dallas, TX 75320	Order placement address: Hutton Communications 2520 Marsh Lane Carrollton, TX 75006  Order placement fax: (815) - 744-6066	Internet address: <a href="http://www.hol4g.com">http://www.hol4g.com</a>

TESSCO			
Main Contact:	Glenn Frame	Secondary Contact:	John Hunt
Address:	11126 McCormick Road Hunt Valley, MD 21031	Address:	4775 Aircenter Cr. Reno, NV 89502
Phone Numbers:	410-229-1344	Phone Numbers: Fax:	1 -888 821 0591 1 775-689 5557
Email:	<a href="mailto:frame@tessco.com">frame@tessco.com</a>	Email:	<a href="mailto:huntj@tessco.com">huntj@tessco.com</a>

TALLEY INC.		
Main Contact (inside): Scott Thompson (206) 355-6017 <a href="mailto:sthompson@talleycom.com">sthompson@talleycom.com</a>	Secondary Contact: Sue Farley (800) 949-7079 x 1501 <a href="mailto:sfarley@talleycom.com">sfarley@talleycom.com</a>	Customer Service MGR: Angela Burmeister (800) 949-7079 x 1046
Payment address: Talley Inc. P.O.Box 511390 Los Angeles, CA 90051-7945	Order placement address: Talley Inc. Attn: Scott Thompson 12976 Sandoval Street Santa Fe Springs, CA 90670	Internet address: <a href="http://www.talleycom.com">http://www.talleycom.com</a>

INFINITY TECHNOLOGY DISTRIBUTORS AND CONSULTING SERVICES, LLC INC.		
Main Contact (inside): 877.593.8822 opt 1 <a href="mailto:rschneible@infinitytdc.com">rschneible@infinitytdc.com</a>	Secondary Contact: 877.593.8822 opt 2 <a href="mailto:tpope@infinitytdc.com">tpope@infinitytdc.com</a>	Customer Service MGR: Ray Schneible <a href="mailto:rschneible@infinitytdc.com">rschneible@infinitytdc.com</a> 877-593-8822 opt 1
Payment address: P.O. Box 741073 Atlanta, GA 30384-1073	Order placement address: 234 Overhill Dr Mooresville, NC 28117	Internet address: <a href="http://www.infinitytdc.com">www.infinitytdc.com</a>

CATEGORY 7 PRICE SHEETS

Contractor	Category 7 Waveguides and Antennas
Radio Frequency Systems	<a href="http://www.ga.wa.gov/pca/bids/02702-Phase2-Category7.doc">http://www.ga.wa.gov/pca/bids/02702-Phase2-Category7.doc</a>

ANTENNAS

The specifications listed herein are minimum requirements; a range variance of up to a maximum of .9DB has been identified as acceptable.

- A. Welded Grid Antenna. 928-960 MHz. Type “N” Female input connector. – OBSOLETE – NO REPLACEMENTS, RFS NO LONGER SELLS GRID ANTENNAS
  - B. Solid Parabolic Reflector Standard Antenna, 928-960 MHz, 7/8” EIA Flange or Type “N” Female Input Connector OBSOLETE – NO REPLACEMENTS, RFS NO LONGER SELLS GRID ANTENNAS
  - C. Welded Grid Antenna 2.1-2.2 GHz, 7/8” EIA Flange or Type “N” Female Input Connector. “AIR DIELECTRIC FEED” – OBSOLETE – NO REPLACEMENTS, RFS NO LONGER SELLS GRID ANTENNAS
  - D. Welded Grid Antenna 2.1-2.2 GHz, 7/8” EIA Flange or Type “N” Female Input Connector. “FOAM FEED”
- NOTE: NON PRESSURIZED FEEDS ARE NOT AVAILABLE. SEE ABOVE – RFS NO LONGER SELLS GRID ANTENNAS.**
- E. Solid Parabolic Standard Antenna 2.1-2.2 GHz, 7/8” EIA Type “N” Female Input Connector. OBSOLETE – NO REPLACEMENTS
  - F. Solid Parabolic Standard Antenna 6.425-7.125 GHz, CPR 137G Input Flange

Diameter in Feet	Gain-DB Bottom	Gain-DB Mid Band	Gain-DB Top	FCC Category	Beam Width °s	Cross Pol Disc. DB	F/B Ratio DB	VSWR	RFS Model #	PRICE EACH
4.0	35.9	36.4	36.8	-	2.5	30	43	1.08		\$1,650.00
6.0	39.4	39.9	40.3	-	1.7	30	47	1.06	PAL6-65BC1S1	\$1,389.00

G. Solid Parabolic Dual Polarized Standard Antenna 6.425-7.125 GHz, CPR 137G Input Flange

Diameter in Feet	Gain-DB Bottom	Gain-DB Mid Band	Gain-DB Top	FCC Category	Beam Width °s	Cross Pol Disc. DB	F/B Ratio DB	VSWR	RFS P/N	PRICE EACH
6.0	39.2	39.7	40.1	B	1.7	30	47	1.06	SUX6-65BC1S1	\$3,308.11
8.0	41.4	41.9	42.3	A	1.2	30	59	1.06	PADX8-W59AC1S	\$2,394.25
10.0	43.5	43.9	44.4	A	1.0	30	52	1.06	PADX10-W59AC1S1	\$3,648.83
12.0	45.1	45.6	46.0	A	0.8	30	71	1.06	DAX12-65AC	\$9,308.46

H. Single Polarized Antenna, 6.425-7.125 GHz, CPR 137G Input Flange

Diameter in Feet	Gain-DB Bottom	Gain-DB Mid Band	Gain-DB Top	FCC Category	Beam Width °s	Cross Pol Disc. DB	F/B Ratio DB	VSWR	RFS P/N	PRICE EACH
6.0	39.4	39.8	40.2	B	1.7	30	64	1.06	DA6-65BC1S1	\$3,393.68

I. Dual Polarized Antenna, 6.425-7.125 GHz, CPR 137G Input Flange

Diameter in Feet	Gain-DB Bottom	Gain-DB Mid Band	Gain-DB Top	FCC Category	Beam Width °s	Cross Pol Disc. DB	F/B Ratio DB	VSWR	RFS P/N	PRICE EACH
6.0	3.91	39.5	39.9	A	1.7	30	64	1.07	DAX6-65BC	\$3,598.13
	39.2	39.7	40.1	B	1.7	30	47	1.06	DAX6-65BC	\$3,598.13
10.0	43.6	44.0	44.4	A	1.0	34	70	1.06	DAX10-65AC	\$5,899.87

J. Single Polarized Parabolic Antenna, 10.7-11.7 GHz, CPR 90G Input Flange

Diameter in Feet	Gain-DB Bottom	Gain-DB Mid Band	Gain-DB Top	FCC Category	Beam Width °s	Cross Pol Disc. DB	F/B Ratio DB	VSWR	RFS P/N	PRICE EACH
4.0	40.1	40.5	40.9	B	1.6	30	62	1.08	SU4-107BC	\$1,636.11
6.0	43.5	43.9	44.3	B	1.0	30	60	1.06	PAD6-107BC1S1	\$1,721.39

K. Dual Polarized Parabolic Antenna, 10.7-11.7 GHz, CPR 90G Input Flange

Diameter in Feet	Gain-DB Bottom	Gain-DB Mid Band	Gain-DB Top	FCC Category	Beam Width °s	Cross Pol Disc. DB	F/B Ratio DB	VSWR	RFS P/N	PRICE EACH
4.0	40.0	40.4	40.8	A	1.5	30	64	1.1	SUX4-107BC	\$2,346.79
6.0	43.4	43.8	44.2	A	1.0	30	60	1.08	PADX6-107BC1S1	\$2,854.71

L. Single Polarized Parabolic Antenna, 10.7-11.7 GHz, CPR 90G Input Flange

Diameter in Feet	Gain-DB Bottom	Gain-DB Mid Band	Gain-DB Top	FCC Category	Beam Width °s	Cross Pol Disc. DB	F/B Ratio DB	VSWR	RFS P/N	PRICE EACH
4.0	40.1	40.5	40.9	A	1.6	30	62	1.08	SU4-107BC	\$1,636.11
6.0	43.7	44.0	44.5	A	1.0	30	70	1.06	DA6-107BC1S1	\$3,393.68

M. Dual Polarized Parabolic Antenna, 10.7-11.7 GHz, CPR 90G Input Flange

Diameter in Feet	Gain-DB Bottom	Gain-DB Mid Band	Gain-DB Top	FCC Category	Beam Width °s	Cross Pol Disc. DB	F/B Ratio DB	VSWR	RFS P/N	PRICE EACH
4.0	40.0	40.4	40.8	A	1.5	30	64	1.10	SUX4-107BC	\$2,346.79
6.0	43.5	43.8	44.3	A	1.0	30	68	1.08	DAX6-107BC	\$3,251.72

N. Single Polarized Parabolic Antenna, 17.7-19.7 GHz, UG-595/U Input Flange – Not available (obsolete)

O. Single Polarized Parabolic Antenna, 21.2-23.6 GHz, UG-595/U Input Flange

Diameter in Feet	Gain-DB Bottom	Gain-DB Mid Band	Gain-DB Top	FCC Category	Beam Width °s	Cross Pol Disc. DB	F/B Ratio DB	VSWR	RFS P/N	PRICE EACH
2.0	39.6	40.1	40.6	A	1.6	32	66	1.20	SB2-220CB	\$489.68
4.0	45.645.8	46.1	46.6	A	0.8	32	72	1.20	SU4-220BZ	\$1,026.86
6.0	49.0	49.5	50.0	A	0.5	32	75	1.15	SU6-220BZ	\$2,011.50



4	40.0	40.4	40.3	A	1.5	40	70	UXA4-107BC	\$2,986.67
6	43.5	43.8	44.3	A	1.1	40	73	UXA6-107BC	\$4,740.71

H. Ultra High Performance, 10.7-11.7 GHz Dual Polarization, CPR90G

Diameter in Feet	Gain-DB Bottom	Gain-DB Mid Band	Gain-DB Top	FCC Category	Beam Width °s	Cross Pol Disc. DB	F/B Ratio DB	RFS P/N	PRICE EACH
4	40.0	40.4	40.8	A	1.5	40	70	UXA4-107BC	\$2,986.67
6	43.5	43.8	44.3	A	1.1	40	73	UXA6-107BC	\$4,740.71
8	45.9	46.2	46.7	A	0.8	30	75	UXA8-107AC	\$5,615.64
10	47.8	48.2	48.4	A	0.7	30	77	UXA10-107AC	\$6,807.53
12	49.2	49.6	49.9	A	0.5	30	78	UXA12-107AC	\$8,013.06

I. High Performance, 17.7-19.7 GHz, Singal Polarization, UG595/U Input Flange – Not Available (obsolete)

J. High Performance, 17.7-19.7 GHz, Super, Dual Polarization, UG595/U Input Flange

Diameter in Feet	Gain-DB Bottom	Gain-DB Mid Band	Gain-DB Top	FCC Category	Beam Width °s	Cross Pol Disc. DB	F/B Ratio DB	RFS P/N	PRICE EACH
1	32.7	33.3	33.8	-	3.4	30	55	SBX1-190BB	\$555.56
2	37.8	38.3	38.7	A	1.9	36	66	UXA2-190BB	\$1,890.90
6	47.5	48.0	48.4	A	0.7	36	76	UXA6-190BB	\$3,861.00

Radomes PRICING

Radome Type	Diameter in Feet	Attenuation 2 GHz	Attenuation 6 GHz	Attenuation 11 GHz	Attenuation 18 GHz	RFS P/N	PRICE EACH
Standard	2.0	0.10 dB	0.30dB	.9dB	2.0db	RADOME_2	\$184.80
Standard	4.0	0.10 dB	0.30dB	1.0dB	2.0db	RADOME_4	\$285.60
Standard	6.0	0.10 dB	0.40dB	1.0dB	2.1db	RADOME_6	\$393.60
Standard	8.0	0.10 dB	0.50dB	1.1dB	--	RADOME_8	\$621.60
Standard	10.0	0.20dB	0.80dB	1.5dB	--	RADOME_10	\$912.00

Transmission Line PRICING

Transmission line or COAXIAL cable will be will be available according to the sizes listed below:

SIZE	DESCRIPTION	PRICE per foot
(LCF12-50J) OBSOLETE		
½" LCF12-50J-P7 - REPLACEMENT	½" Diameter Foam Dielectric Coaxial Cable	\$.92
(LCF78-50J) OBSOLETE		
7/8" LCF78-50JA-P7 - REPLACEMENT	7/8" Diameter Foam Dielectric Coaxial Cable	\$2.11

(LCF114-50J) OBSOLETE		
1 ¼" UCF114-50JA-P7 - REPLACEMENT	1 ¼" Diameter Foam Dielectric Coaxial Cable	\$4.10
(S-FLC14-50J) OBSOLETE		
SCF14-50J – REPLACEMENT	¼" Diameter Super Flexible Foam Dielectric Coaxial Cable	\$.98
(S-FLC12-50J) OBSOLETE		
SCF12-50J-P7 - REPLACEMENT	½" Diameter Super Flexible Foam Dielectric Coaxial Cable	\$1.34

**Connectors PRICING**  
 Connectors for Foam

½" Connector	Price Each	7/8" Connector	Price Each	1-¼" Connector	Price Each	1-5/8 Connector	Price Each	¼" Super Flexible Connector	Price Each	½" Super Flexible Connector	Price Each
NM-LCF12-070 (15566070)	\$15.65 REPL	NM-LCF78-022K (Use NM-LCF78D01K) (155710455)	\$22.16 REPL	NM-LCF114-072 (15586072)	\$68.30 REPL	NM-LCF158-072 (Use NM-LCF158-D01K)(15576055)	\$90.00 REPL	NM-SCF14-002 (15501070)	\$29.75 REPL	NM-SCF12-070 (1550770)	\$18.55 REPL
NF-LCF12-070	\$15.65 REPL	NF-LCF78-022K (Use NF-LCF78D01K) ( )	\$22.16	NF-LCF114-072 (15586172)	\$68.30 REPL	NF-LCF158-072 (Use NF-LCF158-D01K)(15576155)	\$90.00 REPL	NF-SCF14-001 (15564340)	\$63.00 REPL	NF-SCF12-070 (15560870)	\$23.45 REPL
UHF Male	\$21.20							UHF Male	\$23.27	UHF Male	\$16.70
UHF Female	\$21.20									DIN Male	\$14.67
7/16 DIN Male #716M-LCF12-070 (155654700)	\$14.46					7/16 DIN Male 716M-LCF158-D01K (15575455)	\$83.34	DIN Male 716M-LCF14-0709 (15500470)	\$17.15	DIN Female	\$14.67

						)					
		1/16 DIN Male (716M-LCF78-022K (15570523))	\$22.09 REPL	7/16 DIN Male (Use 716M-LCF114-072) (15585472)	\$69.02 REPL			DIN Female	\$20.48		
7/16 DIN Female #716M-LCF12-D01 (15565451)	\$14.46	7/16 DIN Female (716F-LCF78-022K) Use 716F-LCF78-D01K (15570555)	\$22.09 REPL	7/16 DIN Female 716F-LCF114-072 (15585572)	\$69.02 REPL	7/16 DIN Female 716F-LCF158-D01K (15575555)	\$83.34	NMR-LCF14-075 (15501075)	\$24.24	DIN Male Right Angle	\$20.79
7/8" EIA	\$41.02	7/8" EIA	\$42.42	7/8" EIA	\$84.70	7/8" EIA	\$121.28				

7/8" Connectors for Air Dielectric

TYPE	PRICE EACH
"N" Male OBS.	
NM-HCA78-001	\$75.24 REPL

Spread Spectrum

- A. Welded Grid Antenna. 2300-2500 MHz "Spread Spectrum" Type "N" Female Input connector or 7/8" EIA Flange OBSOLETE – RFS NO LONGER SELLS GRID ANTENNAS

Accessory price discount off manufacturer price list  
Discount off Manufacturer Price List: See Below for rate

**RADIO FREQUENCY SYSTEMS, INC.**

**PURCHASE DISCOUNTS  
FOR  
STATE OF WASHINGTON  
AND OTHER WSCA STATES**

**Phase I**

High Performance Microwave Antennas	60%
Standard Performance Microwave Antennas	52%
Grid Microwave Antennas	45%
Flexwell® Elliptical Waveguide	65%
Flexwell® Elliptical Waveguide Connectors	65%
Flexwell® Elliptical Waveguide Accessories	65%
CELLFLEX® LCF Foam Dielectric Coaxial Cables	65%
CELLFLEX® LCF Coaxial Cable Connectors	65%
CELLFLEX® Installation Accessories	65%
Flexwell® Air Dielectric Coaxial Cables	60%
Pressurization Equipment	42%

Note: All pricing is FOB Destination with full standard surface freight allowed.

Per Section 32.a. of the RFP, Radio Frequency Systems is also offering a contractual project discount of three percent (3%) off the total value for any single purchase order or combination of purchase orders over \$100,000, submitted at one time by a purchasing entity, or multiple entities, conducting a cooperative purchase for delivery.

The above discounts shall be applied to the prices listed in the most current Radio Frequency Systems published price list and are subject to annual review.



## CONTRACTOR INFORMATION

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**Contractor:** **Sinclair Technologies, Inc.**

(Received award for Phase I)

**Contact:** [Arlene Gerfin](mailto:agerfin@sinctech.com)

**Alternate Contact:** [Cyndi Fischer](mailto:cfischer@sinctech.com)

**Phone:** 716 874-3682 ext 336

310 796 1336

**Fax:** 716 874 4007

310 796 0636

**Email:** [agerfin@sinctech.com](mailto:agerfin@sinctech.com)

[cfischer@sinctech.com](mailto:cfischer@sinctech.com)

**Internet address:** [www.sinctech.com](http://www.sinctech.com)

**Web catalog address:**

**Federal ID No.:** 16-0845791

**Supplier No.:** 30589-1

**Total Contract worth:** \$170,000 (estimate based on 2012 sales)

**Payment address:** Sinclair Technologies  
55 Oriskany Dr  
Tonawanda, NY 14150

**Order placement address:** Sinclair Technologies  
55 Oriskany Dr  
Tonawanda, NY 14150

**Customer Service:** Arlene Gerfin

**Telephone:** 716-874-3682 x243

**Fax:** 716-874-8736

**Ordering procedures:**

**Credit card acceptance:** (NONE SPECIFIED, BUT ANSWERED YES THEY ACCEPT THEM)

**Minimum orders:**

**Delivery time:** 30 days After Receipt of Order (ARO)

**Payment terms:** 1% 30 days

**Shipping destination:** Freight on Board (FOB) destination

**Freight:** Prepaid and included

**Palletization:** N/A

**Category:**

**Equipment Line items:**

**Link to bid Specifications:**

**Link to Price Sheets:**

**Awarded Phase(s):** Phase I

	Description	Qty	Unit	Percentage off Mfg List Price
1.	Support Services	Hourly	EA	\$
2.	Installation Services	Hourly	EA	\$
3.	Repair Services	Hourly	EA	\$
4.	Accessories		EA	
5.	List other Equipment			
6.	Cavity Ferrite Tx Combiners Brand/Model: CT & TJ Series (Catalog pg. 52-53)		EA	35%
7.	Excaliber Mobile Antennas Mfg.: Sinclair Technologies Inc. Brand/Model: Excal Series (Catalog pg. 43-45)		EA	35%
8.	Cavity Filters Mfg.: Sinclair Technologies Inc. Brand/Model: FP/FR/FQ Series (Catalog pg. 100-104)		EA	35%
9.	Isolators Mfg.: Sinclair Technologies Inc. Brand/Model: I Series (Catalog pg. 68-69)			35%
10.	Mobile Duplexers Mfg.: Sinclair Technologies Inc. Brand/Model: MR Series (Catalog pg. 96-99)			35%
11.	Band Pass Duplexer Mfg.: Sinclair Technologies Inc. Brand/Model: P Series (Catalog pg. 86)		EA	35%
12.	IM Suppression Panels Mfg.: Sinclair Technologies Inc. Brand/Model: PC Series (Catalog pg. 67)		EA	35%
13.	Preselectors Mfg.: Sinclair Technologies Inc. Brand/Model: FP & PH Series (Catalog pg. 82-83)		EA	35%
14.	Q-Circuit Base Station Duplexers Mfg.: Sinclair Technologies Inc. Brand/Model: Q-201G / Q-202G Series (Catalog pg. 89-90)		EA	35%
15.	Res-Lok 'Q' Series Duplexers Mfg.: Sinclair Technologies Inc. Brand/Model: Q Series (Catalog pg. 91-95)		EA	35%
16.	Receiver Multicouplers Mfg.: Sinclair Technologies Inc. Brand/Model: RM Series (Catalog pg. 73-76)		EA	35%

	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Percentage off Mfg List Price</b>
17.	Exposed Dipole Array Antennas Mfg.: Sinclair Technologies Inc. Brand/Model: SRL- 110 / 210 / 222 / 224 / 235 / 310 / 335 Series (Catalog pg. 7, 9-12, 17-19)		EA	35%
18.	VHF Corner Reflector Mfg.: Sinclair Technologies Inc. Brand/Model: SRL-227 (Catalog pg. 40)		EA	35%
19.	Omnidirectional Antennas Mfg.: Sinclair Technologies Inc. Brand/Model: SRL-238 (Catalog pg. 8)		EA	35%
20.	Yagi Antennas Mfg.: Sinclair Technologies Inc. Brand/Model: SRL-206 / SRL-212 / SRL-307 / SRL-406 (Catalog pg. 36, 37, 39)		EA	35%
21.	Cellular/Trunking Exposed Dipole Array Antennas Mfg.: Sinclair Technologies Inc. Brand/Model: SRL-410 Series (Catalog pg. 21)		EA	35%
22.	Cellular/Trunking Omnidirectional Antennas Mfg.: Sinclair Technologies Inc. Brand/Model: SRL-420 / SRL-480 Series (Catalog pg. 30)		EA	35%
23.	Data Antennas Mfg.: Sinclair Technologies Inc. Brand/Model: SRL-441 Series (Catalog pg. 46-47)		EA	35%
24.	Transmitter Combiners Mfg.: Sinclair Technologies Inc. Brand/Model: TC Series (Catalog pg. 58-59)		EA	35%
25.	Fiberglass Collinear Antennas Mfg.: Sinclair Technologies Inc. Brand/Model: SRL-229 / SRL-320 (Catalog pg. 13, 16)		EA	35%
26.	Ground Plane Antennas Mfg.: Sinclair Technologies Inc. Brand/Model: SRL-101 / SRL-301 (Catalog pg. 5, 15)		EA	35%
27.	Harmonic Filters Mfg.: Sinclair Technologies Inc. Brand/Model: AF Series (Catalog pg. 72)		EA	35%
28.	Power Monitor/Alarm Systems Mfg.: Sinclair Technologies Inc. Brand/Model: AMV-6A (Catalog pg. 84)		EA	35%
29.	Clamps and Mounting Hardware Mfg.: Sinclair Technologies Inc. Brand/Model: Clamps (Catalog pg. 118-125)		EA	35%

### CONTRACTOR INFORMATION

**Contractor:** **Tait North America, Inc.**

(Received award for Phase I)

**Contact:** Brian Kirkham

**Alternate Contact:** Anna Zhao

**Phone:** (281) 944-3545

**Phone:** (281) 600-8281

**Fax:** (281) 829-3320

**Fax:** (281) 829-3320

**Email:** [Brian.Kirkham@taitradio.com](mailto:Brian.Kirkham@taitradio.com)

**Email:** [anna.zhao@taitradio.com](mailto:anna.zhao@taitradio.com)

**Internet address:** [wsc@taitradio.com](mailto:wsc@taitradio.com)

**Web catalog address:** <http://us.taitworld.com>

**Federal ID No.:** 74-2209324

**Supplier No.:** W6742

**Total Contract worth:** \$2,300,000 (estimate based on 2012 sales)

**Office address:** Tait Radio Communications  
(Updated 8/14/09) 15342 Park Row  
Houston, TX 77084

**Shipping address:** Tait Radio Communications  
15352 Park Row  
Houston, TX 77084

**Payment address:** Controller: Kris Klug  
Dept 2408  
PO Box 122408  
Dallas, TX 75312-2408

**Order placement address:** Ops. Mgr. Alan Gutsell  
15342 Park Row  
Houston, TX 77084

**Customer Service:** Logistic & order processing Dept. [wsc@taitradio.com](mailto:wsc@taitradio.com)

**Telephone:** (281) 829-3300

**Fax:** (281) 829-3320

**Ordering procedures:** e-mail or FAX

**Credit card acceptance:** Visa, MasterCard

**Minimum orders:** None

**Delivery time:** 30 days After Receipt of Order (ARO)

**Payment terms:** Net 30 days

**Shipping destination:** Free on Board (FOB) destination

**Freight:** Prepaid and included (UPS Ground)

**Palletization:** As Required

**Awarded Phase(s)** Phase I

Req. Item	Comm. Code	Description	Qty	Unit	Percentage off Mfg List Price
1.1		TB9100 P25 IP Base Station / Repeater Conventional or Trunked (136-174)(380-520)(762-870)MHz*	1	EA	25%
1.2		TP9100 P25 Portable Radio Conventional or Trunked (136-174)(380-420)(400-470)(450-530)(762-870) MHz*	1	EA	25%
1.3		TM9100 P25 Mobile Radios Conventional or Trunked (136-174)(360-400)(400-470)(450-530)(762-870)MHz*	1	EA	25%
1.4		P25 Encryption Key Fill Device KFD	1	EA	25%
2.0		TB9100 P25 / TB8100 Portable Repeater Conventional or Trunked (136-156)(148-174)(174-193)(193-225)(380-420)(400-440)(440-480)(470-520)(762-869)(852-930)(896-941)*	1	EA	25%
3.1		TB7100 Base Station / Repeater Conventional or Trunked (66-88)(136-174)(216-266)(400-470)(450-530) MHz*	1	EA	25%
3.2		TB8100 Base Station / Repeater Conventional or Trunked (136-156)(148-174)(174-193)(193-225)(380-420)(400-440)(440-480)(470-520)(762-776/850-870)(896-941) MHz*	1	EA	25%
3.3		TP8100 Portable Radio Conventional or Trunked (136-174)(174-225)(400-470)(450-530)(806-870)(896-941) MHz* ORCA Intrinsically Safe Portable Radio Conventional or Trunked (66-88)(806-870)(851-870)(896-941)(935-941) MHz*	1	EA	25%
3.4		TM8100/8200 Mobile Radios Conventional or Trunked (66-88)(136-174)(216-266)(350-400)(400-470)(450-530)(762-776)(792-825)(850-941) MHz*	1	EA	25%
4.0		Technical Support Services During Regular Business Hours Outside Regular Business Hours (excluding travel expenses)	1 1	HR HR	\$ 85.00 \$150.00
5.0		All other items including accessories.	1	EA	25%

\* Some Power and Band Splits may vary depending on model. See individual product specification sheets for details.

**P-25 Phase 2 Enabled Radio Packages  
 PORTABLE RADIOS**

		list price	WSCA Price
<b>TP9455</b> encryptable		<b>TP9455</b>	
<b>Part Number</b> TP9455-K5ZB-0CEX-0D00 T03-00012-AEAA TPAS050 TPAS055 TP9455-K5ZB-0CCX-0DBA	<b>9455 Portables (P25 Phase 2 Upgradable)</b>  TP9455, 7/800MHz , 2500mAh Battery, Antenna, Charger and US Plug Pack P25 CAI P25 Trunking Licence <b>Full package - 2000mAh batt, antenna, Charger &amp; PP, CAI, P25 trunking</b>	<b>4 Key</b>  \$1,964 \$72 \$464 \$365 <b>\$2,865</b>	  \$1,473 \$54 \$348 \$274 <b>\$2,149</b>

<b>TP9460</b> encryptable		<b>TP9460</b>	
<b>Part Number</b> TP9460-K5BB-0CEX-0D00 T03-00012-AEAA TPAS050 TPAS055 TP9460-K5ZB-0CCX-0DBA	<b>9460 Portables (P25 Phase 2 Upgradable)</b>  TP9460,7/800MHz 2500mAh Battery, Antenna, Charger and US Plug Pack P25 CAI P25 Trunking Licence <b>Full package - 2000mAh batt, antenna, Charger &amp; PP, CAI, P25 trunking</b>	<b>16 Key</b>  \$2,259 \$72 \$464 \$365 <b>\$3,160</b>	  \$1,694 \$54 \$348 \$274 <b>\$2,370</b>

<b>TP9435</b> no encryption		<b>TP9435</b>	
<b>Part Number</b> TP9435-K5ZB-0CEX-0DAA T03-00012-AEAA TPAS055 TP9435-K5ZB-0CCX-0DBA	<b>9435 Portables (P25 Phase 2 Upgradable)</b>  TP9400 including, 2500mAh Battery, Antenna, CAI Charger and US Plug Pack P25 Trunking Licence <b>Full package - 2000mAh batt, antenna, Charger &amp; PP, CAI, P25 trunking</b>	<b>4 Key</b>  \$1,768 \$72 \$365 <b>\$2,205</b>	  \$1,326 \$54 \$274 <b>\$1,654</b>

<b>TP9440</b> no encryption		<b>TP9440</b>	
<b>Part Number</b> TP9440-K5ZB-0CEX-0DAA T03-00012-AEAA TPAS055 TP9440-K5ZB-0CCX-0DBA	<b>9440 Portables (P25 Phase 2 Upgradable)</b>  TP9400 including, 2500mAh Battery, Antenna, CAI Charger and US Plug Pack P25 Trunking Licence <b>Full package - 2000mAh batt, antenna, Charger &amp; PP, CAI, P25 trunking</b>	<b>16 Key</b>  \$1,983 \$72 \$365 <b>\$2,420</b>	  \$1,487 \$54 \$274 <b>\$1,815</b>

X' is dependant on the antenna they require: (see product coding sheets for more details)

K = Whip 1/4"

L = Helical (Stubby)

M = Whip 1/2"

Z designates Case color

B = Black

O = Orange

**ACCESSORIES**

<b>Spare Batteries</b>		<b>List USD</b>	<b>WSCA Price</b>
T03-00011-AAAA	TP81/93/94 Battery - Standard Li-Ion 2000mAh	\$88	\$66
T03-00011-CAAA	TP81/93/94 Battery - Performance Li-Ion 2500mAh	\$108	\$81

**MOBILE RADIOS**

**TM9455** encryptable

<b>Product Code</b>	<b>9400 Mobiles (P25 Phase 2 Upgradable) 7/800MHz</b>	<b>Std Mic</b>	
TM9455-K5X0-AAU0-0000	TM9455, 7/800MHz, 35W, std Mic, U-cradle	\$2,296	\$1,722
TMAS050	P25 CAI	\$464	\$348
TMAS055	P25 Trunking Licence	\$365	\$274
TM9455-K5X0-AAU0-00BA	<b>Full package including std mic, CAI and Trunking Licences</b>	<b>\$3,125</b>	<b>\$2,344</b>

**TM9544** encryptable

<b>Product Code</b>	<b>9400 Mobiles (P25 Phase 2 Upgradable) 7/800MHz</b>	<b>Keypad Mic</b>	
TM9455-K5X0-ABU0-0000	TM9455, 7/800MHz, 35W, K/pad Mic, U-cradle	\$2,396	\$1,797
TMAS050	P25 CAI	\$464	\$348
TMAS055	P25 Trunking Licence	\$365	\$274
TM9455-K5X0-ABU0-00BA	<b>Full package including k/pad mic, CAI and Trunking Licences</b>	<b>\$3,225</b>	<b>\$2,419</b>

**TM9435** no encryption

<b>Product Code</b>	<b>9400 Mobiles (P25 Phase 2 Upgradable) 7/800MHz</b>	<b>Std Mic</b>	
TM9435-K5X0-AAU0-0000	TM9435, 7/800MHz, 35W, std Mic, U-cradle	\$1,651	\$1,238
TMAS050	P25 CAI	\$464	\$348
TMAS055	P25 Trunking Licence	\$365	\$274
TM9435-K5X0-AAU0-00BA	<b>Full package including std mic, CAI and Trunking Licences</b>	<b>\$2,480</b>	<b>\$1,860</b>

**TM9435** no encryption

<b>Product Code</b>	<b>9400 Mobiles (P25 Phase 2 Upgradable) 7/800MHz</b>	<b>Keypad Mic</b>	
TM9435-K5X0-ABU0-0000	TM9435, 7/800MHz, 35W, keypad Mic, U-cradle	\$1,751	\$1,313
TMAS050	P25 CAI	\$464	\$348
TMAS055	P25 Trunking Licence	\$365	\$274
TM9435-K5X0-ABU0-00BA	<b>Full package including k/pad mic, CAI and Trunking Licences</b>	<b>\$2,580</b>	<b>\$1,935</b>

X' is dependant on whether they require BNC or mini-UHF connector: (see product coding sheets for more details)

C= 35-50W with BNC connector

D = 35-50W with Mini-UHF connector



**Frabrication Hourly** \$ 75.00 per hour

**Installation** \$ 85.00 per hour

**Materials at cost + 15%**

**Awarded Phase(s)** Phase I & II

### **Category 6 Communication Towers**

#### **SPECIAL TERMS AND CONDITIONS**

##### **1. MATERIALS AND WORKMANSHIP**

The Contractor shall be required to furnish all materials, equipment and/or services necessary to perform contractual requirements. Materials and workmanship in the construction of equipment for this contract shall conform to all codes, regulations and requirements for such equipment, specifications contained herein, and the normal uses for which intended. Materials shall be manufactured in accordance with the best commercial practices and standards for this type of equipment. Materials used in the production of any tower must be new.

##### **2. WARRANTY(IES)**

All materials provided shall be guaranteed by the contractor against mechanical, electrical and workmanship defects. In the event defects become evident within the warranty period, the contractor shall furnish replacement parts and materials at no additional cost to the state. The warranty period shall commence with the date of the communications tower's acceptance and remain in effect for one (1) calendar year, except for expendable items.

The contractor shall provide, within the warranty period and at the bid price, the necessary parts, labor and transportation to maintain the equipment in sufficient state of repair to continue system performance in compliance with the specification contained herein. The contractor shall provide qualified personnel, replacement parts and material to service the equipment at the installed site location within eight (8) hours after the notification of equipment failure. Repairs must be complete within 48 hours.

This warranty period maintenance shall be on a working hour basis as follows: 24 hours per day, 7 days per week.

## **SUBMITTALS**

### **Price Sheet**

#### **TITLE:**

**3 LEGGED HOLLOW ROUND TRIANGULAR SELF SUPPORT TOWERS HEAVY MICROWAVE,  
4 LEGGED HOLLOW ROUND SELF SUPPORT TOWERS HEAVY MICROWAVE  
CAMERA POLES  
MONOPOLES**

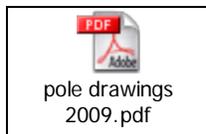
**Separate pricing sheet must be submitted for each type of towers**

#### **Notes for completing the Price Sheet**

- The provided Price Sheet shall be completed by the vendor showing a project cost breakdown on an item by item basis rather than a simple lump sum cost.
- The Vendor shall list all specific exceptions to the specification and submit these exceptions with the pricing offer.
- 

#### **Site assumptions:**

- Relatively flat
- Typically 30 miles or 1-1/2 hour drive from the nearest town
- Public gravel or dirt access road to site
- Site typically located on top of a mountain or side of mountain at 3500 ft AMSL in the State of Washington
- Space is typically available on site for tower assembly and erection.
- 120VAC/240VAC is typically available on site for AC commercial powered sites
- For non-AC commercial powered sites the contractor shall provide their own temporary portable AC generator to meet their AC power needs.



**PRICE SHEET TABLE  
 SOLICITATION FOR NEW PRICING  
 CONTRACT NO. 02702  
 TITLE: PUBLIC SAFETY COMMUNICATION EQUIPMENT**

**LIGHT DUTY 3 LEGGED HOLLOW ROUND TRIANGULAR SELF SUPPORT TOWERS**

**Separate pricing sheet must be submitted for each type of structure**

300 Foot Self-Support tower to **be priced by 20 foot sections exclusively, from elevation down from top, ft.** including Waveguide Bridge and all linear and discrete tower appurtenances, i.e., antenna tower mounts, working, rest & walking platforms, climbing ladders and vertical waveguide ladders.

Tower in 20 ft Section, top down  Line Item	Mfg stock number	Tower Costs Material & Freight Only	Climbing Ladder & Anti- Climb Device Material & Labor	Obstruction Lighting System Medium Intensity Material & Labor <b><u>Must be included for all towers heights</u></b>	Geotechnical Report Costs	Grounding of Tower Base & WG Ladder	Tower Installation Costs Labor Only	Standard Safety Climb Cable Device includes harness, sleeve + Top & Bottom Stops + Install Labor	Rose Safety Climb Rail Device includes sleeve + Top & Bottom Stops + Install Labor	Total \$
		\$	\$	\$		\$	\$	\$	\$	
1. 20 ft	L72-S920-20	7186.00	1045.00	10143.00	\$6000.00	By Others	13112.00	982.00	1524.00	\$39992.00
2. 40 ft	L72-S920-40	8434.00	1705.00	10143.00	\$6000.00	By Others	13288.00	1246.00	2023.00	\$42839.00
3. 60 ft	L72-S920-60	9930.00	2365.00	10143.00	\$6000.00	By Others	14872.00	1536.00	2527.00	\$47373.00
4. 80 ft	L72-S920-80	12205.00	3025.00	10143.00	\$6000.00	By Others	18436.00	1800.00	2951.00	\$54560.00
5. 100 ft	L72-S920-100	14455.00	3685.00	10143.00	\$6000.00	By Others	20900.00	2064.00	3500.00	\$60747.00
6. 120 ft	L72-S920-120	18230.00	4345.00	10293.00	\$6000.00	By Others	24574.00	2170.00	4004.00	\$69616.00
7. 140 ft	L72-S920-140	22808.00	5005.00	10293.00	\$6000.00	By Others	27038.00	2682.00	4508.00	\$78334.00
8. 160 ft	L72-S920-160	29025.00	5655.00	10293.00	\$6000.00	By Others	29502.00	2859.00	4927.00	\$88261.00
9. 180 ft	L72-S920-180	34,135.00	6325.00	10293.00	\$6000.00	By Others	33066.00	3270.00	5481.00	\$98570.00
10. 200 ft	L72-S920-200	50340.00	6985.00	10293.00	\$6000.00	By Others	35530.00	3534.00	5980.00	\$118662.00
11. 220 ft	L72-S920-220	50887.00	7645.00	13601.00	\$6000.00	By Others	41712.00	3850.00	6334.00	\$130029.00
12. 240 ft	L72-S920-240	59124.00	7920.00	13601.00	\$6000.00	By Others	44176.00	4114.00	6908.00	\$141843.00
13. 260 ft	L72-S920-260	69541.00	8965.00	13601.00	\$6000.00	By Others	46640.00	4442.00	7407.00	\$156596.00
14. 280 ft	L72-S920-280	82258.00	9625.00	13601.00	\$6000.00	By Others	52272.00	4706.00	7916.00	\$176378.00
15. 300 ft	L72-S920-300	107075.00	10285.00	13601.00	\$6000.00	By Others	54736.00	4970.00	8335.00	\$205002.00

**Provide price offer to make changes to existing towers. This should labor rates and cost for materials.**

**PRICE SHEET TABLE  
 SOLICITATION FOR NEW PRICING  
 CONTRACT NO. 02702  
 TITLE: PUBLIC SAFETY COMMUNICATION EQUIPMENT**

**MEDIUM DUTY 3 LEGGED HOLLOW ROUND TRIANGULAR SELF SUPPORT TOWERS HEAVY**

**Separate pricing sheet must be submitted for each type of structure**

300 Foot Self-Support tower to **be priced by 20 foot sections exclusively, from elevation down from top, ft.** including Waveguide Bridge and all linear and discrete tower appurtenances, i.e., antenna tower mounts, working, rest & walking platforms, climbing ladders and vertical waveguide ladders.

Tower in 20 ft Section, top down  Line Item	Mfg stock number	Tower Costs Material & Freight Only	Climbing Ladder & Anti- Climb Device Material & Labor	Obstruction Lighting System Medium Intensity Material & Labor <b><u>Must be included for all towers heights</u></b>	Geotechnical Report Costs	Grounding of Tower Base & WG Ladder	Tower Installation Costs Labor Only	Standard Safety Climb Cable Device includes harness, sleeve + Top & Bottom Stops + Install Labor	Rose Safety Climb Rail Device includes sleeve + Top & Bottom Stops + Install Labor	Total \$
		\$	\$	\$	\$	\$	\$	\$	\$	
1. 20 ft	M72-S920-20	7692.00	1045.00	10143.00	6000.00	By Others	13112.00	982.00	1524.00	\$40498.00
2. 40 ft	M72-S920-40	8889.00	1705.00	10143.00	6000.00	By Others	13288.00	1246.00	2023.00	\$43294.00
3. 60 ft	M72-S920-60	11086.00	2365.00	10143.00	6000.00	By Others	14872.00	1536.00	2527.00	\$48529.00
4. 80 ft	M72-S920-80	14173.00	3025.00	10143.00	6000.00	By Others	18436.00	1800.00	2951.00	\$56528.00
5. 100 ft	M72-S920-100	18430.00	3685.00	10143.00	6000.00	By Others	20900.00	2064.00	3500.00	\$64722.00
6. 120 ft	M72-S920-120	23467.00	4345.00	10293.00	6000.00	By Others	24574.00	2170.00	4004.00	\$74853.00
7. 140 ft	M72-S920-140	33164.00	5005.00	10293.00	6000.00	By Others	27038.00	2682.00	4508.00	\$88690.00
8. 160 ft	M72-S920-160	41891.00	5655.00	10293.00	6000.00	By Others	29502.00	2859.00	4927.00	\$101127.00
9. 180 ft	M72-S920-180	52918.00	6325.00	10293.00	6000.00	By Others	33066.00	3270.00	5481.00	\$117353.00
10. 200 ft	M72-S920-200	65855.00	6985.00	10293.00	6000.00	By Others	35530.00	3534.00	5980.00	\$134177.00
11. 220 ft	M72-S920-220	74922.00	7645.00	13601.00	6000.00	By Others	41712.00	3850.00	6334.00	\$154064.00
12. 240 ft	M72-S920-240	90099.00	7920.00	13601.00	6000.00	By Others	44176.00	4114.00	6908.00	\$172818.00
13. 260 ft	M72-S920-260	116896.00	8965.00	13601.00	6000.00	By Others	46640.00	4442.00	7407.00	\$203951.00
14. 280 ft	M72-S920-280	135153.00	9625.00	13601.00	6000.00	By Others	52272.00	4706.00	7916.00	\$229273.00
15. 300 ft	M72-S920-300	156310.00	10285.00	13601.00	6000.00	By Others	54736.00	4970.00	8335.00	\$254237.00

**Provide price offer to make changes to existing towers. This should labor rates and cost for materials.**

**PRICE SHEET TABLE  
 SOLICITATION FOR NEW PRICING  
 CONTRACT NO. 02702  
 TITLE: PUBLIC SAFETY COMMUNICATION EQUIPMENT**

**HEAVY DUTY 3 LEGGED HOLLOW ROUND TRIANGULAR SELF SUPPORT TOWERS**

**Separate pricing sheet must be submitted for each type of structure**

300 Foot Self-Support tower to **be priced by 20 foot sections exclusively, from elevation down from top, ft.** including Waveguide Bridge and all linear and discrete tower appurtenances, i.e., antenna tower mounts, working, rest & walking platforms, climbing ladders and vertical waveguide ladders.

Line Item	Tower in 20 ft Section, top down	Mfg stock number	Tower Costs Material & Freight Only	Climbing Ladder & Anti-Climb Device Material & Labor	Obstruction Lighting System Medium Intensity Material & Labor <b><u>Must be included for all towers heights</u></b>	Geotechnical Report Costs	Grounding of Tower Base & WG Ladder	Tower Installation Costs Labor Only	Standard Safety Climb Cable Device includes harness, sleeve + Top & Bottom Stops + Install Labor	Rose Safety Climb Rail Device includes sleeve + Top & Bottom Stops + Install Labor	Total \$
			\$	\$	\$	\$	\$	\$	\$	\$	
1.	20 ft	H72-S920-20	7342.00	1045.00	10143.00	6000.00	By Others	13112.00	982.00	1524.00	\$40148.00
2.	40 ft	H72-S920-40	9829.00	1705.00	10143.00	6000.00	By Others	13288.00	1246.00	2023.00	\$44234.00
3.	60 ft	H72-S920-60	12776.00	2365.00	10143.00	6000.00	By Others	14872.00	1536.00	2527.00	\$50219.00
4.	80 ft	H72-S920-80	16873.00	3025.00	10143.00	6000.00	By Others	18436.00	1800.00	2951.00	\$59228.00
5.	100 ft	H72-S920-100	22600.00	3685.00	10143.00	6000.00	By Others	20900.00	2064.00	3500.00	\$68892.00
6.	120 ft	H72-S920-120	28447.00	4345.00	10293.00	6000.00	By Others	24574.00	2170.00	4004.00	\$79833.00
7.	140 ft	H72-S920-140	36104.00	5005.00	10293.00	6000.00	By Others	27038.00	2682.00	4508.00	\$91630.00
8.	160 ft	H72-S920-160	43391.00	5655.00	10293.00	6000.00	By Others	29502.00	2859.00	4927.00	\$102627.00
9.	180 ft	H72-S920-180	54498.00	6325.00	10293.00	6000.00	By Others	33066.00	3270.00	5481.00	\$118933.00
10.	200 ft	H72-S920-200	66995.00	6985.00	10293.00	6000.00	By Others	35530.00	3534.00	5980.00	\$135317.00
11.	220 ft	H72-S920-220	78332.00	7645.00	13601.00	6000.00	By Others	41712.00	3850.00	6334.00	\$157474.00
12.	240 ft	H72-S90-240	91849.00	7920.00	13601.00	6000.00	By Others	44176.00	4114.00	6908.00	\$174568.00
13.	260 ft	H72-S920-260	118386.00	8965.00	13601.00	6000.00	By Others	46640.00	4442.00	7407.00	\$205441.00
14.	280 ft	H72-S920-280	137233.00	9625.00	13601.00	6000.00	By Others	52272.00	4706.00	7916.00	\$231353.00
15.	300 ft	H72-S920-300	159300.00	10285.00	13601.00	6000.00	By Others	54736.00	4970.00	8335.00	\$257227.00

**Provide price offer to make changes to existing towers. This should labor rates and cost for materials.**

**PRICE SHEET TABLE  
 SOLICITATION FOR NEW PRICING  
 CONTRACT NO. 02702  
 TITLE: PUBLIC SAFETY COMMUNICATION EQUIPMENT**

**HEAVY DUTY 4 LEGGED HOLLOW ROUND SQUARE SELF SUPPORT TOWERS**

**Separate pricing sheet must be submitted for each type of structure**

300 Foot Self-Support tower to **be priced by 20 foot sections exclusively, from elevation down from top, ft.** including Waveguide Bridge and all linear and discrete tower appurtenances, i.e., antenna tower mounts, working, rest & walking platforms, climbing ladders and vertical waveguide ladders.

Line Item	Tower in 20 ft Section, top down	Mfg stock number	Tower Costs Material & Freight Only	Climbing Ladder & Anti-Climb Device Material & Labor	Obstruction Lighting System Medium Intensity Material & Labor <u>Must be included for all towers heights</u>	Geotechnical Report Costs	Grounding of Tower Base & WG Ladder	Tower Installation Costs Labor Only	Standard Safety Climb Cable Device includes harness, sleeve + Top & Bottom Stops + Install Labor	Rose Safety Climb Rail Device includes sleeve + Top & Bottom Stops + Install Labor	Total \$
			\$	\$	\$	\$	\$	\$	\$	\$	
1.	20 ft	H108-M820-20	13042.00	1045.00	10143.00	6000.00	By Others	13913.00	982.00	1524.00	\$46649.00
2.	40 ft	H108-M840-40	19542.00	1705.00	10143.00	6000.00	By Others	13880.00	1246.00	2023.00	\$54539.00
3.	60 ft	H108-M840-60	25596.00	2365.00	10143.00	6000.00	By Others	15990.00	1536.00	2527.00	\$64157.00
4.	80 ft	H108-M840-80	32583.00	3025.00	10143.00	6000.00	By Others	19981.00	1800.00	2951.00	\$76483.00
5.	100 ft	H108-M840-100	39200.00	3685.00	10143.00	6000.00	By Others	22761.00	2064.00	3500.00	\$87353.00
6.	120 ft	H108-M840-120	46827.00	4345.00	10293.00	6000.00	By Others	28023.00	2170.00	4004.00	\$101662.00
7.	140 ft	H108-M840-140	56204.00	5005.00	10293.00	6000.00	By Others	30962.00	2682.00	4508.00	\$115654.00
8.	160 ft	H108-M840-160	65246.00	5655.00	10293.00	6000.00	By Others	33901.00	2859.00	4927.00	\$128881.00
9.	180 ft	H108-M840-180	75583.00	6325.00	10293.00	6000.00	By Others	38105.00	3270.00	5481.00	\$145057.00
10.	200 ft	H108-M840-200	83170.00	6985.00	10293.00	6000.00	By Others	41044.00	3534.00	5980.00	\$157006.00
11.	220 ft	H108-M840-220	93782.00	7645.00	13601.00	6000.00	By Others	50442.00	3850.00	6334.00	\$18144.00
12.	240 ft	H108-M840-240	105239.00	7920.00	13601.00	6000.00	By Others	53539.00	4114.00	6908.00	\$197321.00
13.	260 ft	H108-M840-260	125021.00	8965.00	13601.00	6000.00	By Others	56637.00	4442.00	7407.00	\$222073.00
14.	280 ft	H108-M840-280	141958.00	9625.00	13601.00	6000.00	By Others	63536.00	4706.00	7916.00	\$247342.00
15.	300 ft	H108-M840-300	157785.00	10285.00	13601.00	6000.00	By Others	66634.00	4970.00	8335.00	\$267610.00

**Provide price offer to make changes to existing towers. This should labor rates and cost for materials.**

**PRICE SHEET TABLE  
 SOLICITATION FOR NEW PRICING  
 CONTRACT NO. 02702  
 TITLE: PUBLIC SAFETY COMMUNICATION EQUIPMENT**

**LIGHT DUTY MONOPOLES**

**Separate pricing sheet must be submitted for each type of structure**

300 Foot Self-Support tower to **be priced by 20 foot sections exclusively, from elevation down from top, ft.** including Waveguide Bridge and all linear and discrete tower appurtenances, i.e., antenna tower mounts, working, rest & walking platforms, climbing ladders and vertical waveguide ladders.

Tower in 20 ft Section, top down  Line Item	Mfg stock number	Monopole Costs Material & Freight Only	Climbing Stepbolts & Anti-Climb Device Material & Labor	Obstruction Lighting System Medium Intensity Material & Labor <b><u>Must be included for all towers heights</u></b>	Geotechnical Report Costs	Grounding of Tower Base & WG Ladder	Monopole Installation Costs Labor Only	Standard Safety Climb Cable Device includes harness, sleeve + Top & Bottom Stops + Install Labor	Rose Safety Climb Rail Device includes sleeve + Top & Bottom Stops + Install Labor	Total \$
		\$	\$	\$	\$	\$	\$	\$	\$	
1. 20 ft	LGT_MP20	11633.00	1024.00	10143.00	6000.00	By Others	11517.00	669.00	N/A	\$40986.00
2. 40 ft	LGT_MP40	12323.00	1058.00	10143.00	6000.00	By Others	11737.00	727.00	N/A	\$41988.00
3. 60 ft	LGT_MP60	14573.00	1093.00	10143.00	6000.00	By Others	12177.00	785.00	N/A	\$44771.00
4. 80 ft	LGT_MP80	15743.00	1127.00	10143.00	6000.00	By Others	12617.00	842.00	N/A	\$46472.00
5. 100 ft	LGT_MP100	17633.00	1161.00	10143.00	6000.00	By Others	12837.00	900.00	N/A	448674.00
6. 120 ft	LGT_MP120	21063.00	1196.00	10293.00	6000.00	By Others	13277.00	914.00	N/A	\$52473.00
7. 140 ft	LGT_MP140	23103.00	1230.00	10293.00	6000.00	By Others	16533.00	972.00	N/A	\$58131.00
8. 160 ft	LGT_MP160	29223.00	1265.00	10293.00	6000.00	By Others	16863.00	1029.00	N/A	\$64673.00
9. 180 ft	LGT_MP180	33353.00	1299.00	10293.00	6000.00	By Others	17312.00	1087.00	N/A	\$69344.00
10. 200 ft	LGT_MP200	46173.00	1333.00	10293.00	6000.00	By Others	19072.00	1145.00	N/A	\$84016.00
11. 220 ft										
12. 240 ft										
13. 260 ft										
14. 280 ft										
15. 300 ft										

**Provide price offer to make changes to existing towers. This should labor rates and cost for materials.**

**PRICE SHEET TABLE  
 SOLICITATION FOR NEW PRICING  
 CONTRACT NO. 02702  
 TITLE: PUBLIC SAFETY COMMUNICATION EQUIPMENT  
 MEDIUM DUTY MONOPOLES**

**Separate pricing sheet must be submitted for each type of structure**

300 Foot Self-Support tower to **be priced by 20 foot sections exclusively, from elevation down from top, ft.** including Waveguide Bridge and all linear and discrete tower appurtenances, i.e., antenna tower mounts, working, rest & walking platforms, climbing ladders and vertical waveguide ladders.

Tower in 20 ft Section, top down  Line Item	Mfg stock number	Monopole Costs Material & Freight Only	Climbing Stepbolts & Anti-Climb Device Material & Labor	Obstruction Lighting System Medium Intensity Material & Labor <b><u>Must be included for all towers heights</u></b>	Geotechnical Report Costs	Grounding of Tower Base & WG Ladder	Monopole Installation Costs Labor Only	Standard Safety Climb Cable Device includes harness, sleeve + Top & Bottom Stops + Install Labor	Rose Safety Climb Rail Device includes sleeve + Top & Bottom Stops + Install Labor	Total \$
		\$	\$	\$	\$	\$	\$	\$	\$	
1. 20 ft	MED_MP20	13160.00	1024.00	10143.00	6000.00	By Others	11908.00	669.00	N/A	\$42904.00
2. 40 ft	MED_MP40	14080.00	1058.00	10143.00	6000.00	By Others	12139.00	727.00	N/A	\$44147.00
3. 60 ft	MED_MP60	16190.00	1093.00	10143.00	6000.00	By Others	12601.00	785.00	N/A	\$46812.00
4. 80 ft	MED_MP80	18000.00	1127.00	10143.00	6000.00	By Others	13063.00	842.00	N/A	\$49175.00
5. 100 ft	MED_MP100	21410.00	1161.00	10143.00	6000.00	By Others	13294.00	900.00	N/A	\$52908.00
6. 120 ft	MED_MP120	24390.00	1196.00	10293.00	6000.00	By Others	13756.00	914.00	N/A	\$56549.00
7. 140 ft	MED_MP140	27730.00	1230.00	10293.00	6000.00	By Others	17174.00	972.00	N/A	\$63399.00
8. 160 ft	MED_MP160	33740.00	1265.00	10293.00	6000.00	By Others	17521.00	1029.00	N/A	\$69848.00
9. 180 ft	MED_MP180	38940.00	1299.00	10293.00	6000.00	By Others	17992.00	1087.00	N/A	\$75611.00
10. 200 ft	MED_MP200	51200.00	1333.00	10293.00	6000.00	By Others	19840.00	1145.00	N/A	\$89811.00
11. 220 ft										
12. 240 ft										
13. 260 ft										
14. 280 ft										
15. 300 ft										

**Provide price offer to make changes to existing towers. This should labor rates and cost for materials.**

**PRICE SHEET TABLE  
 SOLICITATION FOR NEW PRICING  
 CONTRACT NO. 02702  
 TITLE: PUBLIC SAFETY COMMUNICATION EQUIPMENT**

**HEAVY DUTY MONOPOLES**

**Separate pricing sheet must be submitted for each type of structure**

300 Foot Self-Support tower to **be priced by 20 foot sections exclusively, from elevation down from top, ft.** including Waveguide Bridge and all linear and discrete tower appurtenances, i.e., antenna tower mounts, working, rest & walking platforms, climbing ladders and vertical waveguide ladders.

Tower in 20 ft Section, top down  Line Item	Mfg stock number	Monopole Costs Material & Freight Only	Climbing Stepbolts & Anti-Climb Device Material & Labor	Obstruction Lighting System Medium Intensity Material & Labor <b><u>Must be included for all towers heights</u></b>	Geotechnical Report Costs	Grounding of Tower Base & WG Ladder	Monopole Installation Costs Labor Only	Standard Safety Climb Cable Device includes harness, sleeve + Top & Bottom Stops + Install Labor	Rose Safety Climb Rail Device includes sleeve + Top & Bottom Stops + Install Labor	Total \$
		\$	\$	\$	\$	\$	\$	\$	\$	
1. 20 ft	HVY_MP20	15007.00	1024.00	10143.00	6000.00	By Others	12318.00	669.00	N/A	\$45161.00
2. 40 ft	HVY_MP40	18034.00	1058.00	10143.00	6000.00	By Others	12539.00	727.00	N/A	\$48501.00
3. 60 ft	HVY_MP60	20614.00	1093.00	10143.00	6000.00	By Others	13045.00	785.00	N/A	\$51680.00
4. 80 ft	HVY_MP80	24604.00	1127.00	10143.00	6000.00	By Others	13530.00	842.00	N/A	\$56246.00
5. 100 ft	HVY_MP100	27884.00	1161.00	10143.00	6000.00	By Others	13773.00	900.00	N/A	\$59861.00
6. 120 ft	HVY_MP120	33614.00	1196.00	10293.00	6000.00	By Others	14258.00	914.00	N/A	\$66275.00
7. 140 ft	HVY_MP140	39334.00	1230.00	10293.00	6000.00	By Others	17848.00	972.00	N/A	\$75677.00
8. 160 ft	HVY_MP160	53954.00	1265.00	10293.00	6000.00	By Others	18212.00	1029.00	N/A	\$90753.00
9. 180 ft	HVY_MP180	61064.00	1299.00	10293.00	6000.00	By Others	18706.00	1087.00	N/A	\$98449.00
10. 200 ft	HVY_MP200	71874.00	1333.00	10293.00	6000.00	By Others	20646.00	1145.00	N/A	\$111291.00
11. 220 ft										
12. 240 ft										
13. 260 ft										
14. 280 ft										
15. 300 ft										

**Provide price offer to make changes to existing towers. This should labor rates and cost for materials.**

**PRICE SHEET TABLE  
 SOLICITATION FOR NEW PRICING  
 CONTRACT NO. 02702  
 TITLE: PUBLIC SAFETY COMMUNICATION EQUIPMENT**

**CAMERA POLES**

**Separate pricing sheet must be submitted for each type of structure**

300 Foot Self-Support tower to **be priced by 20 foot sections exclusively, from elevation down from top, ft.** including Waveguide Bridge and all linear and discrete tower appurtenances, i.e., antenna tower mounts, working, rest & walking platforms, climbing ladders and vertical waveguide ladders.

Tower in 20 ft Section, top down  Line Item	Mfg stock number	Pole Costs Material & Freight Only	Elbow	Obstruction Lighting System Medium Intensity Material & Labor <b><u>Must be included for all towers heights</u></b>	Geotechnical Report Costs	Grounding of Tower Base & WG Ladder	Tower Installation Costs Labor Only	Standard Safety Climb Cable Device includes harness, sleeve + Top & Bottom Stops + Install Labor	Rose Safety Climb Rail Device includes sleeve + Top & Bottom Stops + Install Labor	Total \$
		\$	\$	\$	\$	\$	\$	\$	\$	
1. 15 ft	CP-15	1310.00	985.00	N/A	N/A	N/A	N/A	N/A	N/A	2295.00
2. 20 ft	CP-20	1385.00	985.00	N/A	N/A	N/A	N/A	N/A	N/A	2370.00
3. 30 ft	CP-30	3371.00	1300.00	N/A	N/A	N/A	N/A	N/A	N/A	4671.00
4. 40 ft	CP-40	4285.00	1300.00	N/A	N/A	N/A	N/A	N/A	N/A	5585.00
5. 50 ft	CP-50	5936.00	1300.00	N/A	N/A	N/A	N/A	N/A	N/A	7236.00

**Provide price offer to make changes to existing towers. This should labor rates and cost for materials.**

**REV G SPECIFICATIONS  
VALMONT**

<b>MICROWAVE TOWERS CAMERA POLES MONOPOLES OPTIONAL LIGHTING</b>	 Camera pole Price Form 2009.doc
<b>REV G CATEGORIES</b>	 G:\Purchasing & Contracts\Contracts\
<b>MONOPOLES</b>	 Valmont Monopoles.xls

### CONTRACTOR INFORMATION

**Contractor:** **Vertex Standard USA**

(Received award for Phase I)

<b>Contact:</b>	Alternate Contact 1: Victoria Taylor, Customer Support Lead Vertex Standard 1301 E. Algonquin Rd Schaumburg, IL 60196	Alternate Contact 2: Ralph Orta, Regional Sales Manager Eastern Government Accounts Vertex Standard 156 Victoria Ave Paramus, NJ 07652
<b>Phone:</b>	(800) 283-7839	(201) 995-3989
<b>Fax:</b>	(847) 761-4932	(847) 761-4932
<b>Email:</b>	<a href="mailto:victoria.taylor@vertexstandard.com">victoria.taylor@vertexstandard.com</a>	<a href="mailto:ralph.orta@vertexstandard.com">ralph.orta@vertexstandard.com</a>

**Internet address:** <http://www.vertexstandard.com>

**Product catalog address:** <http://www.ga.wa.gov/pca/contract/02702-Vertex-Radio-092804.pdf>

**Federal ID No.:** 95-2815202

**Supplier No.:** W1063

**Total Contract worth:** \$500,000 (estimate based on 2012 sales)

**Payment address:** Vertex Standard LMR, Inc  
1301 Algonquin RD.  
Schaumburg, IL 60693-0622

**Order placement address:** See dealer list or Vertex Standard LMR, Inc.  
1301 E. Algonquin Rd.  
Schaumburg, IL 60196

**Customer Service:** Victoria Taylor

**Telephone:** 800-283-7839

**Fax:** 847-761-4932

**Ordering procedures:** Contact Customer Service

**Credit card acceptance:** Visa, MasterCard, American Express

**Minimum orders:** None

**Delivery time:** 30 days After Receipt of Order (ARO)

**Payment terms:** Net 30 Days

**Shipping destination:** Freight on Board (FOB) destination

**Freight:** Prepaid and included

**Palletization:** N/A

**Category:** Category 1, Radio Equipment

**Equipment Line  
items:**

**Awarded Phase(s)** Phase I

## Link to Price Sheets



## SALES CONTACTS

### Western Region

John Nenevento, West Regional Sales Manager  
Vertex Standard  
1301 E. Algonquin Rd  
Schaumburg, IL 60196  
Cell (408) 202-9500  
[john.benevento@vertexstandard.com](mailto:john.benevento@vertexstandard.com)

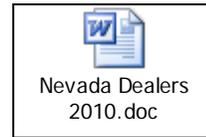
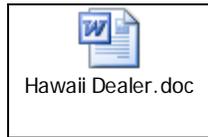
### Central Region

Joe Tee, Central Regional Sales Manager  
Vertex Standard  
1301 E. Algonquin Road  
Schaumburg, Illinois 60196  
Phone: (847) 576-2643  
Cell: (847) 812-0333  
E-mail: [joe.tee@vertexstandard.com](mailto:joe.tee@vertexstandard.com)

### Eastern Region

Ralph Orta, Eastern Regional Sales Manager  
Eastern Government Accounts  
Vertex Standard  
156 Victoria Ave.  
Paramus, New Jersey 07652  
Phone: (201) 995-3989  
E-mail: [ralph.orta@vertexstandard.com](mailto:ralph.orta@vertexstandard.com)

## AUTHORIZED DEALER LISTS



	Description	Qty	Unit	Percentage off Mfg List Price
1.	Base Station	1-4	EA	28%
		5-10	EA	28%
		11+	EA	28%
2.	Repeater	1-4	EA	28%
		5-10	EA	28%
		11+	EA	28%
3.	Portable Radio	1-49	EA	28%
		50+	EA	28%
4.	Mobile Radio	1-20	EA	28%
		21-	EA	28%
		100	EA	28%
		101+		
5.	Desktop	1-20	EA	28%
		21-	EA	28%
		100	EA	28%
		101+		
6.	Support Services	1	HR	\$75.00
7.	Installation Services	1	HR	\$75.00
8.	Repair Services	1	HR	\$75.00
9.	Accessories		EA	28%
10.	List other Equipment All products on our enclosed retail price list		EA	28%
11.	List other Equipment		EA	
12.	List other Equipment		EA	

## PERFORMANCE REPORT FOR CONTRACTOR PRODUCT/SERVICE

Complete this form to report problems with suppliers or to report unsatisfactory product or services. You are also encouraged to report superior performance. Agency personnel should contact suppliers in an effort to resolve problems themselves prior to completion and submission of this report.

Contract number and title: [WSCA Public Safety Communication Contract](#)

### Department of Enterprise Services, Master Contracts & Consulting PERFORMANCE REPORT

To MCC Customers:

Please take a moment to let us know how our services have measured up to your expectations on this contract. Please copy this form locally as needed and forward to the Master Contracts & Consulting, State Procurement Officer. For any comments marked unacceptable, please explain in remarks block.

Procurement services provided:	Excellent	Good	Acceptable	Unacceptable
➤ Timeliness of contract actions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
➤ Professionalism and courtesy of staff	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
➤ Services provided met customer needs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
➤ Knowledge of procurement rules and regulations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
➤ Responsiveness/problem resolution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
➤ Timely and effective communications	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Agency: _____	Prepared by: _____
Contract No.: <u>02702</u>	Title: _____
Contract Title: <u>Public Safety Communication</u>	Date: _____
	Phone: _____

Send to: State Procurement Officer  
 State of Washington, Department of Enterprise Services  
 Master Contracts and Consulting Division  
 PO Box 41411  
 Olympia, Washington 98504-1411

## PRODUCT/SERVICE PERFORMANCE REPORT

Complete this form to report problems with suppliers or to report unsatisfactory product or services. You are also encouraged to report superior performance. Agency personnel should contact suppliers in an effort to resolve problems themselves prior to completion and submission of this report.



Contract number and title: Public Safety Communication Equipment, WSCA #02702

**Please return the above form when completed to:**

To: Robert Paulson, Jr., C.P.M.  
Contracts Specialist  
State of Washington, Department of Enterprise Services  
Master Contracts and Consulting Division  
PO Box 41411  
Olympia, Washington 98504-1411