



PRODUCT OVERVIEW



**EXTEND YOUR
NETWORKING RESOURCES
WITH GRANITE MANAGED SERVICES**

Safety: UL 62368
RoHS-6 and REACH compliant



INTRODUCTION

Powerful Control Made Simple

PDU

Granite edgeboot is a versatile, managed PDU/power-cycle controller and network-based appliance designed for AIOps, including AC-powered device management. This document outlines the specifications and features of the edgeboot SKU with a single switched AC output. The product offers remote power cycling, monitoring, and control capabilities, making it suitable for various use cases.

Usage

- ✓ **Remotely Power Cycle**
Unresponsive AC loads before sending a technician onsite. (Manual & Automatic options available)
- ✓ **Remotely Power Cycle**
For ISP devices providing service to edgeboot LAN port.
- ✓ **Complete Power Cycle**
For devices requiring it, such as after software updates.
- ✓ **RS-232 Interface**
Monitor AC load status. Remote console access available.
- ✓ **LAN Loss Detection**
Detect LAN loss, cycle power, and send alerts.
- ✓ **Expansion Modules**
Supports up to (2) expansion modules for communication and control on multiple devices.
- ✓ **Visual Indicators**
Status LEDs provide local verification of edgeboot’s power, AC output, LTE, and networking status. The edgeboot Portal provides graphical data across sites, as well as device events and change logs.
- ✓ **Remote Out-of-Band Access**
Enable remote out-of-band access over LTE in locations without Ethernet LAN availability.
- ✓ **General Purpose Input/Output (GPIO)**
Utilize for load control and monitoring of sensors and other devices containing a GPIO interface.



Total edgeboot Devices

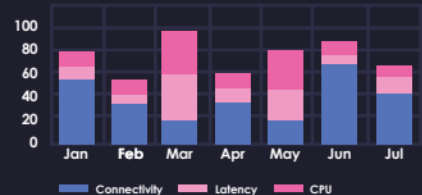
300



PORT STATUS

- online
- offline
- warning
- rebooting

Cause of Reboot



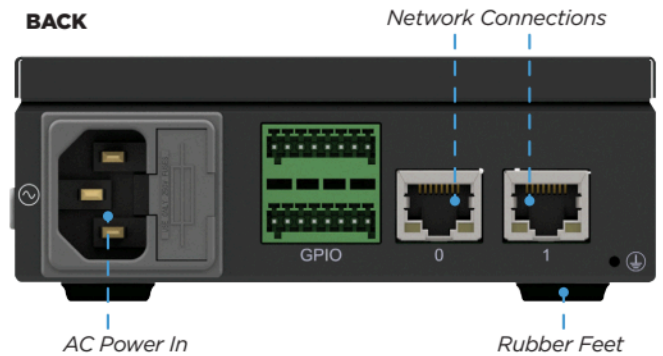
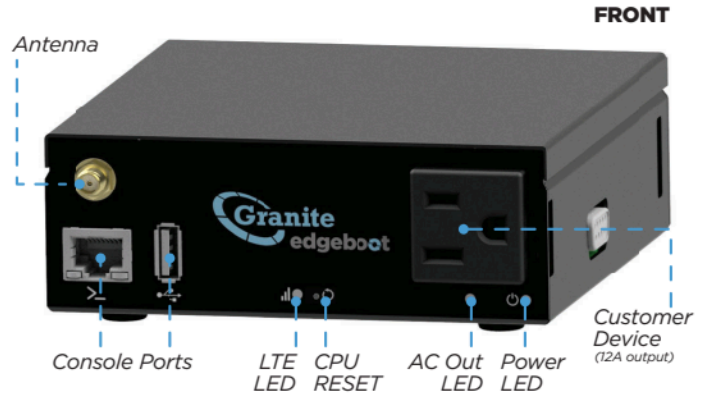
Total Reboots

821



FEATURES

FEATURE	DESCRIPTION
Power Input	1x IEC 320-C14 inlet (fused 15 A)
Power Output	1x NEMA 15-5R outlet Controlled by Internal Relay
10/100/1000 Ethernet Port	1x RJ-45
10/100 Ethernet Port	1x RJ-45
LTE	1x LTE Cat-M1 radio External SMA Connector Micro-SIM card slot
LED	3x RGB LEDs GPIO controlled 2x link/status LEDs on Ethernet RJ-45 connector
RTC	Embedded in Microprocessor Unit
Console	1x RJ45 RS232 Console Port 1x USB-A Console Port
Software	Bootloader & OS provided
Environmental	0 to +40°C Operating Temperature
Unit Dimensions	4.92" x 4.72" x 1.62" (LxWxH)
Mounting	Desktop
Add-On Device Comms	RS-485 via Terminal Block Connections





ORDERING

PART #	DESCRIPTION	OPTIONS
edgeboot	Single Port Power Cycle Controller	Standard Features, Desktop Mount

SPECIFICATIONS

Schedule a Task

Select by Devices Select by Groups

Select Device

eboot-mmm-demo-1

Select Device

Reboot

Select Port

Port 1

Select Frequency

Once

Select Time (UTC)

06:45 AM

POWER OFF FOR:

1 Minute

Select Date:

10/27/2023

October 2023

SUN	MON	TUES	WED	THURS	FRI	SAT
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

AC Power

AC input power from 3-prong IEC 320-C14 inlet connector (125 VAC @ 15 A).
AC output power from NEMA 5-15R outlet connector (125 VAC @ 15 A),
switched by internal relay.

Network Interface

Ethernet (wired): 10/100/1000 Ethernet RJ-45 port with Microchip LAN8830 PHY transceiver. Ethernet Port Preprogrammed MAC address.
Ethernet (wired): 10/100 Ethernet RJ-45 port with Microchip KSZ8091 PHY transceiver. Ethernet Port Preprogrammed MAC address.
LTE (wireless): Embedded LTE Cat-M1 radio (Quectel BG770A) with SMA connector and micro-SIM card slot.
RS-485 (wired): Full duplex communication via Terminal Block Connections.

Storage

128-Mbit Nor Flash (Winbond W25Q128JVS1Q) for bootloader and Ethernet MAC address.
8GB eMMC (SDINBDG4-8G) for OS and application software.

RAM

1GB DDR3L-1066 RAM connected via 16-bit wide bus.

LEDs

Three front panel RGB LEDs (GPIO controlled).
Ethernet RJ-45 port with link and activity LEDs.

Real Time Clock (RTC)

Internal RTC backed by battery.
CR2032 coin cell battery with pull-tag option for extended life.

GPIO

External RS-485 and GPIO Connector

Console

RJ-45 connector for RS-232 console in/out access.
USB-A style connector for RS-232 console out access only.