Granite edgeboot

PRODUCT OVERVIEW

EXTEND YOUR NETWORKING RESOURCES WITH GRANITE MANAGED SERVICES

Safety: UL 62368
RoHS-6 and REACH compliant

INTRODUCTION

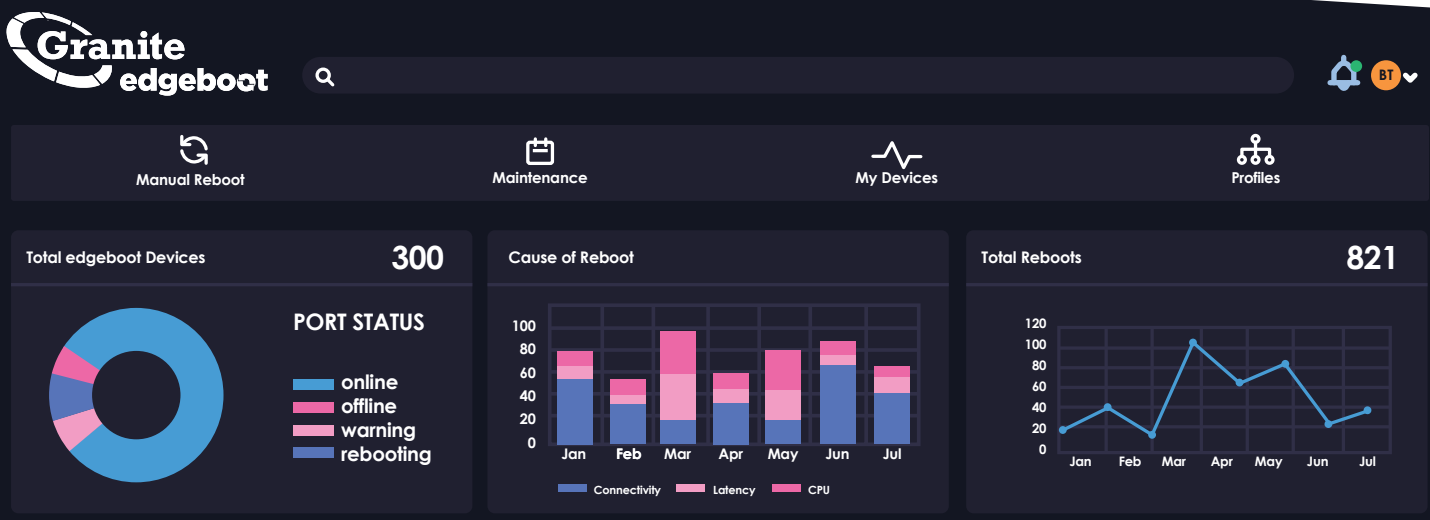
Powerful Control Made Simple

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.

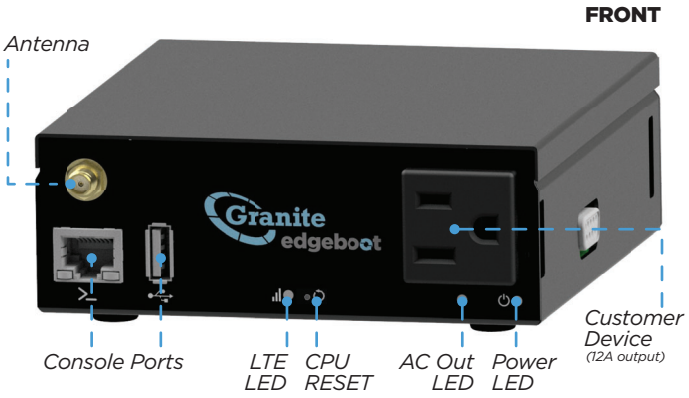
Usage

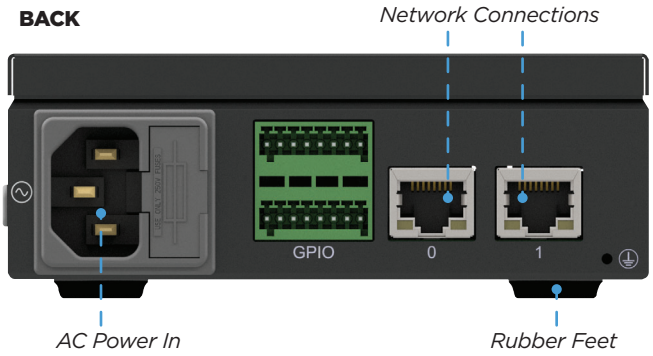
- *Remotely Power Cycle*
  Unresponsive AC loads before sending a technician onsite.
  (Manual & Automatic options available)
- *Remotely Power Cycle*
  For ISP devices providing service to edgeoot LAN port.
- *Complete Power Cycle*
  For devices requiring it, such as after software updates.
- *RS-232 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.



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	4.72" x 4.92" x 1.76" (LxWxH) - Height is (1) RMU for network rack
Mounting	Desktop
Add-On Device Comms	RS-485 via Terminal Block Connections





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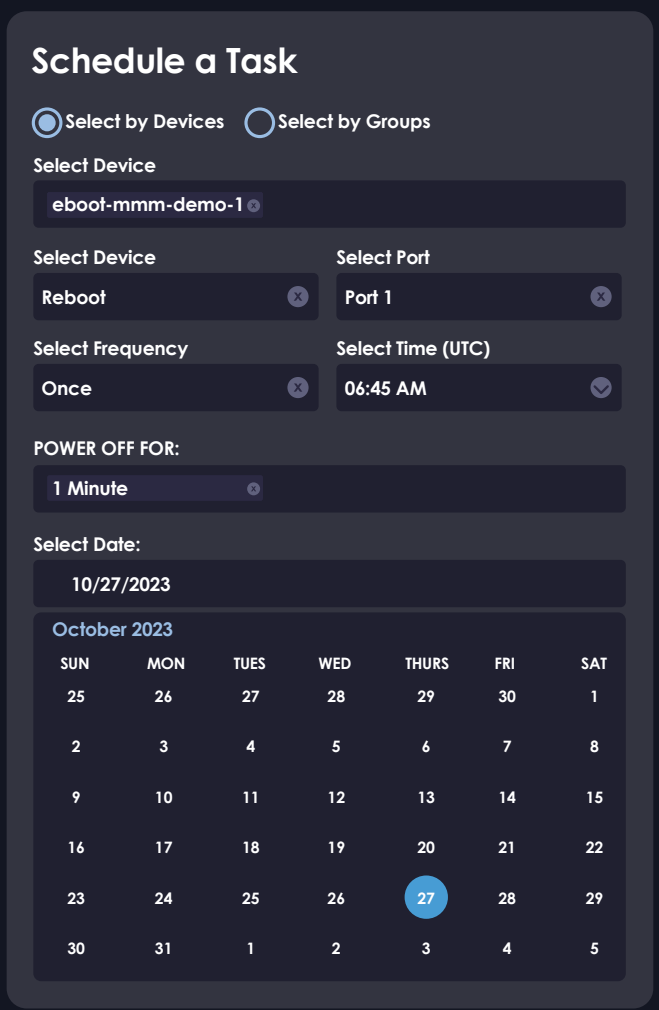
ORDERING

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

SPECIFICATIONS



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 W25Q128JVSIQ) 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.