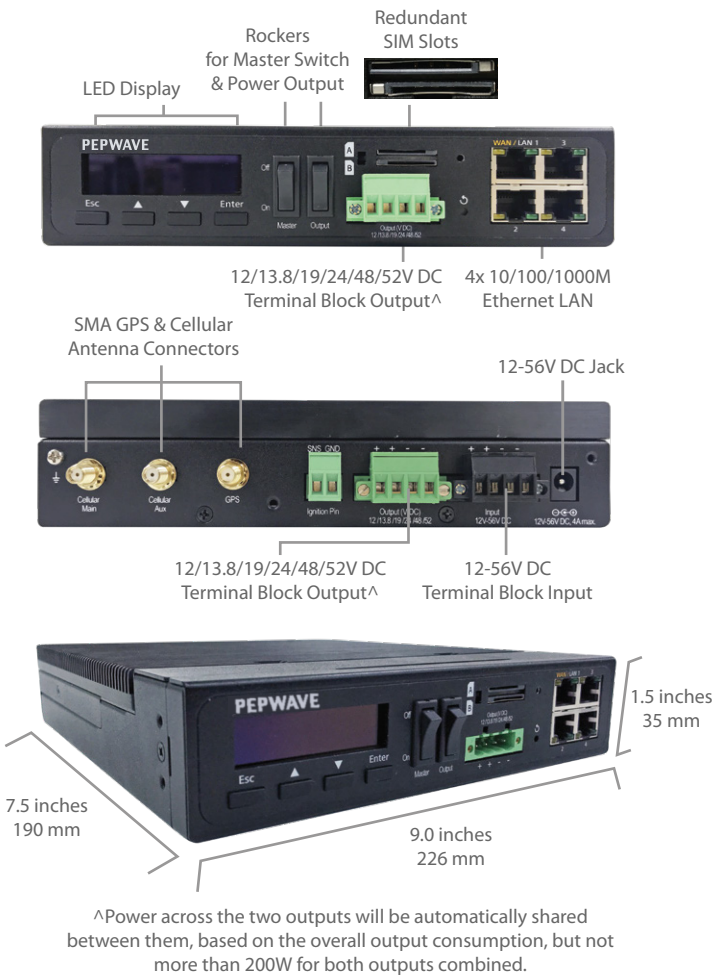


MAX BR1 Power

Software-Defined Power Management Unit (LTE)

Specifications

	SD Power Management Unit (LTE)
WAN Interface	1x Embedded LTE Modem with Redundant SIM slots
Power Input	1x Terminal Block, 1x DC Jack 12-56V DC
Power Output	2x Terminal Blocks (back & front): 12/13.8/19/24/48/52V DC
Stabalized Power	200W
LAN Interface	4x 10/100/1000 ports
Enclosure	Indoor Metal
Dimensions	7.5 x 9.0 x 1.5 inches 190 x 226 x 35 mm
Weight	4.4 pounds 2000 grams
Operating Temperature	-4° – 131°F -20° – 55°C
Humidity	15% – 95% (non-condensing)
Certifications	FCC, CE, RoHS, Rolling Stock
Warranty	1-Year Limited Warranty



^Power across the two outputs will be automatically shared between them, based on the overall output consumption, but not more than 200W for both outputs combined.

4 Devices in 1



12-56V DC

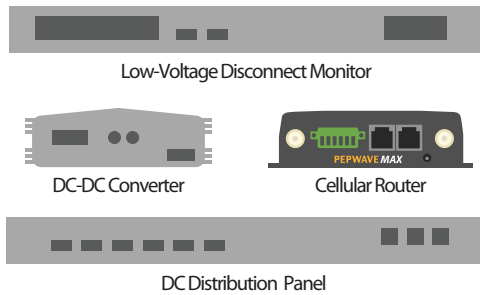


52V DC

The SD-PMU can reduce setup costs, operational complexity, and maintenance expenses by performing the functions of three devices: a low-voltage disconnect monitor, a DC-DC converter, a DC distribution panel and a cellular router.

Rather than installing three enclosures and connecting them through cables, installation now simply involves connecting the batteries and an Ethernet connection to the SD-PMU.

This results in significantly reduced network complexity, smaller footprint, and greater network resilience.



Product Ordering Information

Product Code	Product Name	Description
PMU-DD-LTE-US-52V-200W-T	Software-Defined Power Management Unit (LTE)	Software-Defined Power Management Unit, 1x terminal block input, 2x terminal block output. Cloud Functionality. Includes mounting ears and screws.
PMU-DD-LTE-E-52V-200W-T	Software-Defined Power Management Unit (LTE)	Software-Defined Power Management Unit, 1x terminal block input, 2x terminal block output. Cloud Functionality. Includes mounting ears and screws.

MAX BR1 Power

Software-Defined Power Management Unit (LTE)

PEPWAVE

Broadband Possibilities



Whether enabling free Wi-Fi for buses, or maintaining surveillance on maritime deployments, you need to rely on battery power. Any battery-powered deployments will face the following challenges:

! Voltage Fluctuation

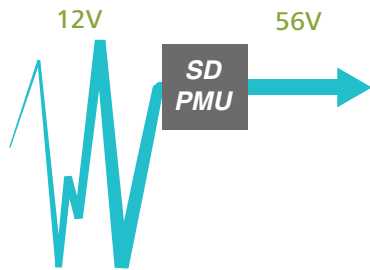
Battery power does not provide stable voltage, this could make devices function unreliably or shut down altogether.

! Inability to Troubleshoot

In the event that devices lose power, there is no information on how the battery has been performing up to that point.

! Battery Drainage

If batteries are excessively drained, they will be unable to start up the vehicle. Overdraining batteries will also damage them.



✓ Voltage Regulation and Boost

The SD-PMU can take power from sources with low or fluctuating voltage and turn them into a reliable streams of upto 56V power. Each device can support 1 power input and 2 power outputs.

✓ Remote Voltage Monitoring

The SD-PMU records battery voltage information and sends it over the IoT Cloud for remote monitoring. In case the SD-PMU cannot reach the IoT Cloud, it will locally store voltage records until it can upload the data.

✓ Low Voltage Disconnect

If the battery cannot deliver sufficient voltage, then the SD-PMU will automatically shut off access to the battery after a predefined delay. Define the voltage threshold as well as the delay between low voltage and shutdown.

