BR1 Mini M2M RedCap

5G for the Long Run



FAQ

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FAQ - BR1 Mini M2M RedCap

Is the BR1 Mini M2M RedCap suitable for me?

What is the BR1 Mini M2M RedCap?

The BR1 Mini M2M RedCap brings 5G RedCap to M2M and IoT equipment. It adds an RS-232 / RS-485 serial port to a 5G RedCap modem with redundant SIM slots, two Gigabit Ethernet ports, simultaneous dual-band Wi-Fi 5, GPS, GPIO, and Ignition Sensing, so serial, wired, and wireless devices can all connect over 5G from one compact, low power device.

What is 5G RedCap?

5G RedCap (Reduced Capability) is the 5G built for IoT. Devices such as POS terminals, meters, and telematics do not need raw speed; they need a connection that supports the installation's lifetime. RedCap delivers 5G with a simpler modem, fewer antennas, and lower power use.

What if 5G is not available at my site?

Where 5G is live, the BR1 Mini M2M RedCap runs on 5G Standalone (SA) in the Sub-6 GHz bands. Where it is not, it runs on LTE CAT-4 and moves to 5G when coverage arrives. Install once, and the site upgrades to 5G as soon as coverage does.

Does the BR1 Mini M2M RedCap support 5G network slicing?

Yes. The BR1 Mini M2M RedCap is built for 5G SA networks, where it connects directly to the 5G core. That makes it compatible with network slicing, a service offered by the carrier on its 5G SA network. With application-based slicing, you can assign critical applications such as point-of-sale to a dedicated slice of the network, while video and web traffic stay on the default network.

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How fast is the BR1 Mini M2M RedCap?

The BR1 Mini M2M RedCap has a rated router throughput of 300 Mbps. Its cellular modem supports 5G RedCap at up to 223 Mbps downlink and 123 Mbps uplink, and LTE CAT-4 at up to 200 Mbps downlink and 105 Mbps uplink (maximum theoretical data rates).

How many users does the BR1 Mini M2M RedCap support?

The BR1 Mini M2M RedCap is recommended for 1 to 60 users.

What certifications does the BR1 Mini M2M RedCap have?

The BR1 Mini M2M RedCap is FCC, CE, and RoHS certified, and meets UL 121201 (Class I, Division 2), EN 61373 (shock and vibration resistance), EN 50155 (railway), and EN 61000 (EMC).

Is the BR1 Mini M2M RedCap TAA compliant?

Yes. The BR1 Mini M2M RedCap is TAA (Trade Agreements Act) compliant.

Is the BR1 Mini M2M RedCap suitable for mobile use?

Yes. The BR1 Mini M2M RedCap operates in temperatures from -40°F to 149°F (-40°C to 65°C). It has a 4-pin Micro-Fit power connector (10V to 30V DC), Ignition Sensing, and GPS, making it well suited for vehicles and fleet telematics.

What are the best use cases for the BR1 Mini M2M RedCap?

The BR1 Mini M2M RedCap is ideal for connecting serial and networked equipment such as meters, PLCs, telemetry units, point-of-sale machines, and fleet telematics.

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What is included with the BR1 Mini M2M RedCap?

What accessories come included with the BR1 Mini M2M RedCap?

The package includes one BR1 Mini M2M RedCap unit, two LTE/5G antennas, two dual-band Wi-Fi antennas, one GPS active antenna, and one 12V DC 2A 4-pin power supply.

What are the dimensions and weight of the BR1 Mini M2M RedCap?

The BR1 Mini M2M RedCap measures 5.1 x 4.2 x 1.4 inches (129.5 x 107 x 35 mm), weighing 1 pound (455 grams).

Does a warranty come included with this product?

All products come with a 1-Year Limited Warranty. Warranty and support services are provided through a PrimeCare subscription, which can be extended on a year-by-year basis.

What is PrimeCare?

PrimeCare is a subscription that bundles InControl cloud management, warranty services, ticket support, and standard RMA.

Every BR1 Mini M2M RedCap includes PrimeCare for the first year. On the BR1 Mini M2M RedCap, PrimeCare also enables Ethernet WAN, Wi-Fi WAN, SpeedFusion (Hot Failover, Smoothing, Bandwidth Bonding, and SpeedFusion Boost), and up to 5 SpeedFusion VPN peers.

What is PrimeCare+?

PrimeCare+ is an upgrade to PrimeCare. It includes everything offered in PrimeCare plus advanced hardware replacement RMA and 24/7 ticket support.

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Which PrimeCare Plan should I buy for the BR1 Mini M2M RedCap?

PrimeCare Plan A or PrimeCare+ Plan A is suitable for the BR1 Mini M2M RedCap. It is available in 1-year, 2-year, and 4-year terms.

Using the BR1 Mini M2M RedCap

What Ethernet ports does the BR1 Mini M2M RedCap have?

The BR1 Mini M2M RedCap has two Gigabit Ethernet ports: one WAN port and one LAN port. Ethernet WAN is enabled with PrimeCare, which is included for the first year, or with the BR1 Mini Feature Pack.

What serial interfaces does the BR1 Mini M2M RedCap support?

The BR1 Mini M2M RedCap has a serial port that supports RS-232 and RS-485, so you can connect serial equipment such as meters, PLCs, and controllers directly to the router.

What antenna connectors does it have?

The BR1 Mini M2M RedCap has two SMA cellular antenna connectors, two RP-SMA Wi-Fi antenna connectors, and one SMA GPS antenna connector.

Can I keep the antennas from my existing LTE router?

Yes, where the existing antennas cover your 5G bands. The BR1 Mini M2M RedCap uses two cellular antennas, the same number as an LTE router, so the antennas and cable runs already on site can stay in place and only the router needs to be swapped.

What size should the SIMs be?

The BR1 Mini M2M RedCap uses Nano-SIMs (4FF).

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I see the unit has two SIM slots. Can they be used simultaneously?

No. The BR1 Mini M2M RedCap is a single-modem device with two SIM slots. You can load two SIMs and switch between them, but only one can be used at a time.

What SIM options are available?

The BR1 Mini M2M RedCap supports a physical Nano-SIM (4FF), a Peplink eSIM, and Bring Your Own (BYO) eSIM with up to four profiles.

What is the Peplink eSIM Data Plan?

With the Peplink eSIM Data Plan, you can access on-demand cellular data plans and pay only for what you need, without a physical SIM.

Can I share one data plan across all my sites?

Yes. With the Peplink eSIM Data Plan, you can put your whole fleet on one shared data pool, assign data to every site in one step, and set automatic top-ups. Data can be assigned before the router ships, so the site goes online as soon as it is powered on.

What happens if my primary carrier goes down?

Every BR1 Mini M2M RedCap has a Peplink eSIM. If your primary carrier goes down, the router can switch to the Peplink eSIM automatically so the site stays online, then return the eSIM to standby once the primary SIM is back.

What is BYO eSIM?

BYO eSIM lets you load eSIM profiles from your own carrier onto the device. The BR1 Mini M2M RedCap stores up to four profiles, and you can activate them through InControl.

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What voltage is required to power the BR1 Mini M2M RedCap?

The BR1 Mini M2M RedCap ships with a 12V DC 2A 4-pin power supply. It can also be powered with 10V to 30V DC through the 4-pin Micro-Fit connector, or with 802.3at Power over Ethernet.

What is the power consumption of the BR1 Mini M2M RedCap?

The BR1 Mini M2M RedCap uses 5.2W typical and 10W maximum. Its low power draw suits sealed enclosures, and it runs on the site's existing backup power.

Is there a way to protect vehicle batteries from draining?

Yes. The device supports Ignition Sensing, which lets it detect when the vehicle is turned on or off. This helps automate power management and protect the vehicle battery.

Does the BR1 Mini M2M RedCap support GPIO?

Yes. The BR1 Mini M2M RedCap includes GPIO, which lets it read inputs from or send outputs to external equipment, such as sensors, alarms, or relays.

Can I mount the BR1 Mini M2M RedCap on a DIN rail?

Yes. A DIN rail mount kit (ACW-DIN-BR1-MINI) is available as an optional accessory.

What power accessories are available?

The following optional power accessories are available: 10ft DC Power Cable (ACW-634), Vehicle Cigarette to Molex Power Cable (ACW-643), and 4-Pin Micro-Fit to USB-C Power Cable (ACW-791).

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Licenses and Software Features

What is SpeedFusion technology?

Peplink's patented SpeedFusion technology is a VPN tunnel that combines technologies such as Hot Failover, Smoothing, Bandwidth Bonding, and SpeedFusion Boost to keep your connection reliable in any environment.

Does the BR1 Mini M2M RedCap support SpeedFusion?

Yes. Hot Failover, Smoothing, Bandwidth Bonding, and SpeedFusion Boost are enabled with PrimeCare, which is included for the first year, or with the BR1 Mini Feature Pack (MAX-BR1-MINI-LC-FP).

What is the BR1 Mini Feature Pack?

The BR1 Mini Feature Pack (SKU: MAX-BR1-MINI-LC-FP) is an add-on license that enables the following features on the BR1 Mini M2M RedCap without a PrimeCare subscription:

- Ethernet WAN: enables the Ethernet WAN port
- Wi-Fi WAN: enables Wi-Fi as a WAN source
- Hot Failover: protects your connection with seamless failover
- Smoothing: minimizes latency and reduces the impact of packet loss
- Bandwidth Bonding: aggregates multiple WANs to increase bandwidth
- SpeedFusion VPN peers: increases the number of peers from 2 to 5

PrimeCare, which is included for the first year, enables the same features.

How many SpeedFusion VPN peers does the BR1 Mini M2M RedCap support?

The BR1 Mini M2M RedCap supports two SpeedFusion VPN peers by default, and five peers with PrimeCare, which is included for the first year, or with the BR1 Mini Feature Pack.

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What is the SpeedFusion VPN throughput of the BR1 Mini M2M RedCap?

The BR1 Mini M2M RedCap delivers up to 80 Mbps of SpeedFusion VPN throughput without encryption, and up to 60 Mbps with 256-bit AES encryption.

Can it connect to an OpenVPN server from a commercial VPN provider?

Yes. Optional OpenVPN WAN licenses add OpenVPN client WAN connections, so the device can connect to OpenVPN servers as WAN sources. Licenses are available for 1, 2, 3, or 4 OpenVPN WANs: LIC-OPN-WAN, LIC-2OPN-WAN, LIC-3OPN-WAN, and LIC-4OPN-WAN.

Can I manage the BR1 Mini M2M RedCap remotely?

Yes. You can manage the BR1 Mini M2M RedCap remotely through Peplink InControl, Peplink's cloud based management platform. InControl is included with a valid PrimeCare subscription.

Can I reach devices behind the router remotely?

Yes. With InTouch in InControl, you can open the web interface of a PLC, camera, or switch behind the router, with no VPN to set up.

Does the BR1 Mini M2M RedCap support GPS fleet tracking?

Yes. The BR1 Mini M2M RedCap has a GPS antenna connector and ships with a GPS active antenna. With InControl, you can view the device location on a map and use location tracking data for fleet management.

What Wi-Fi does the BR1 Mini M2M RedCap support?

The BR1 Mini M2M RedCap has simultaneous dual-band (2.4 GHz / 5 GHz) Wi-Fi 5 2x2 MIMO. The Wi-Fi can be used as an access point for client devices and/or as a Wi-Fi WAN source. Wi-Fi WAN is enabled with PrimeCare, which is included for the first year, or with the BR1 Mini Feature Pack.

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Support



Does Peplink offer support? What if I have trouble setting it up?

Peplink Partners are required to provide support to their customers. We recommend reaching out to your point of purchase for quicker support.

For those who prefer self service, Peplink has a very active forum, which is populated by Peplink Partners, Peplink employees, and many knowledgeable users. Generally, folks with questions get answers rather quickly.

In the unlikely event of a suspected hardware or firmware issue, you can open a support ticket with Peplink directly. In these cases, you will receive attention from some of our best engineers. Peplink supports its users like no other.