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› Peplink MAX BR1 Mini 5G Cellular Router User Manual

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Model: MAX BR1 Mini 5G

1. PRODUCT OVERVIEW

The Peplink MAX BR1 Mini 5G is a compact, rugged cellular router designed for reliable 5G/LTE connectivity in mobile, remote, IoT, teleoperation, and remote security applications. This device features a built-in cellular modem with redundant SIM slots and eSIM support, ensuring continuous network access. It provides three Gigabit Ethernet LAN ports for wired device connectivity and is designed for remote management.



Figure 1: Front view of the Peplink MAX BR1 Mini 5G Cellular Router with antennas and port labels.

Key Features:

- **Compact and Rugged Design:** Ideal for demanding environments, certified for shock and vibration resistance.
- **5G/LTE Cellular Modem:** Connects to 5G and LTE (CAT 20) networks with up to 300Mbps throughput.
- **Redundant SIM Slots and eSIM:** Provides failover capabilities for uninterrupted connectivity.
- **3x Gigabit Ethernet LAN Ports:** For secure wired device connections. Note: This model does not include Wi-Fi or GPS interfaces.
- **Remote Management:** Supports central management via Peplink InControl2 and local management via Peplink InTouch.
- **Upgradeable to Dual WAN:** A second WAN via Ethernet is available with a paid upgrade to Peplink Prime Care.

2. SETUP GUIDE

2.1 What's in the Box

Before you begin, ensure all components are present:

- 1x BR1 Mini 5G Router
- 4x 5G/LTE Antennas (ACW-235)
- 1x 12V 2A 4pin Power Supply (ACW-632)

2.2 Hardware Installation

Follow these steps to set up your Peplink MAX BR1 Mini 5G router:

1. **Attach Antennas:** Carefully screw the four 5G/LTE antennas onto the corresponding connectors on the back of the router. Ensure they are finger-tight.
2. **Insert SIM Card(s):** Locate the SIM card slots. Insert your activated Nano-SIM card(s) into the designated slots until they click into place. The router supports redundant SIMs for failover.
3. **Connect Ethernet Devices:** Connect your wired devices (e.g., computers, switches) to the LAN 1, 2, or 3 ports using standard Ethernet cables. LAN 1 supports 802.3at PoE In.
4. **Power On:** Connect the included 12V 2A 4pin Power Supply to the DC IN port on the router and then plug the power adapter into a power outlet. The router will begin its startup sequence.

Battle-ready Connectivity

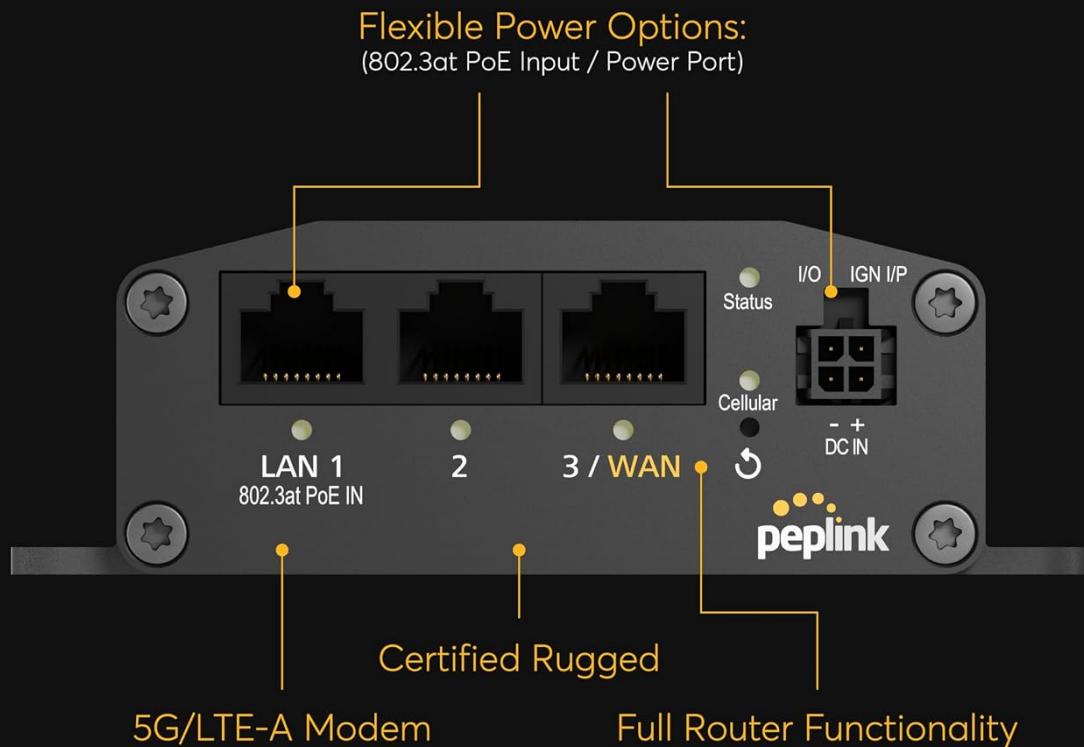


Figure 2: Detailed diagram of the Peplink MAX BR1 Mini 5G ports and features.

2.3 Initial Configuration

After powering on, the router will attempt to establish a cellular connection. You can access the router's web administration interface for further configuration:

1. Connect a computer directly to one of the router's LAN ports.
2. Open a web browser and navigate to the router's default IP address (typically <http://192.168.50.1> or <http://192.168.1.1>). Refer to the device's label for the exact default IP and login credentials.
3. Log in using the default username and password. It is highly recommended to change these credentials immediately for security.
4. Follow the on-screen wizard for initial setup, including setting up your cellular connection and any desired network settings.

3. OPERATING INSTRUCTIONS

3.1 Internet Connectivity

The MAX BR1 Mini 5G primarily uses its built-in cellular modem for internet access. Once a SIM card is inserted and configured, the router will automatically connect to the cellular network. The status LED on the front panel indicates the connection status.

3.2 Ethernet WAN (Optional)

The LAN 3 port can be configured as a WAN port for a second internet source (e.g., a fixed-line broadband connection). This feature requires a paid upgrade to Peplink Prime Care. Once enabled, you can configure the WAN settings via the web administration interface to utilize dual WAN for increased reliability or bandwidth.

3.3 Remote Management

The router supports remote management through Peplink's InControl2 cloud management platform and Peplink InTouch for local device management. These platforms allow for configuration, monitoring, and troubleshooting from a centralized location, reducing the need for on-site visits.



Figure 3: Examples of Peplink MAX BR1 Mini 5G applications in remote environments.

3.4 VPN Capabilities

The MAX BR1 Mini 5G supports VPN connections, providing secure communication channels. It can achieve 20Mbps throughput with a 256-bit AES encrypted VPN connection. Configuration of VPN settings is performed through the web administration interface.

4. MAINTENANCE

4.1 Firmware Updates

Regularly check for and apply firmware updates to ensure optimal performance, security, and access to new features. Firmware updates can typically be managed through the router's web administration interface or via Peplink InControl2.

4.2 Cleaning

Keep the router clean and free from dust. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or solvents, as these can damage the device.

4.3 Environmental Considerations

Ensure the router is operated within its specified temperature and humidity ranges. Avoid placing it in direct sunlight or near heat sources. Adequate ventilation is important for long-term reliability.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your Peplink MAX BR1 Mini 5G router.

Problem	Possible Cause	Solution
No Internet Connection	- SIM card not properly inserted or activated. - No cellular signal. - Incorrect APN settings. - Cellular data plan issues.	- Reinsert SIM card(s) and ensure they are activated with your carrier. - Check cellular signal strength via the router's web interface. Relocate the router if signal is weak. - Verify APN settings in the router's web interface match your carrier's requirements. - Contact your cellular provider to confirm your data plan is active and has data available.
Device Disconnects Frequently	- Weak or unstable cellular signal. - Outdated firmware. - Carrier network issues.	- Monitor signal strength. Consider external antennas if available and compatible. - Ensure the router's firmware is up to date. - Contact your cellular carrier to inquire about network stability in your area.

Problem	Possible Cause	Solution
Cannot Access Web Interface	- Incorrect IP address. - Network cable issue. - Router not powered on.	- Verify the router's IP address. Try default IPs like 192.168.50.1 or 192.168.1.1. - Ensure Ethernet cable is securely connected between your computer and a LAN port. - Check power connection and status LEDs. - Try restarting the router.

For more detailed troubleshooting or advanced issues, please refer to the official Peplink support documentation or contact Peplink technical support.

6. TECHNICAL SPECIFICATIONS

Feature	Detail
Model Name	MAX BR1 Mini 5G (No WiFi variant)
Product Dimensions	5 x 4.2 x 1.4 inches
Item Weight	15.1 ounces
Connectivity Technology	5G, Ethernet, LAN, LTE, WAN
Cellular Modem	Built-in 5G/LTE (CAT 20)
Ethernet Ports	3x Gigabit Ethernet LAN (LAN 1 supports 802.3at PoE In)
SIM Slots	Redundant SIM slots, Built-in eSIM
Router Throughput	300 Mbps
VPN Throughput	20 Mbps (with 256-bit AES encryption)
Special Features	QoS, Remote Access (InControl2, InTouch)
Included Components	BR1 Mini 5G Router, 4x 5G/LTE Antennas, 12V 2A 4pin Power Supply
Manufacturer	Peplink

7. WARRANTY AND SUPPORT

For detailed warranty information, technical support, and additional resources, please visit the official Peplink website or contact their customer service. Product registration may be required to activate your warranty.
Peplink Website: www.peplink.com

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question