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COR IBR200 IoT Router Quick Start Guide

🕑 Oct 28, 2020 · Knowledge

Content

IBR200 IoT Router Quick Start Guide
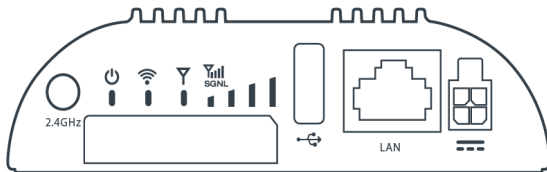
Introduction

This document provides a brief overview of the IBR200 router, discusses what's inside the box, and provides basic setup and installation instructions.

Navigation

Use the following links to quickly navigate through this document.

Before You Begin

Read the following before setting up the Cradlepoint IBR200 router.

Location Considerations

To ensure the IBR200 operates efficiently, the following is recommended:

- Ensure the device is positioned to receive optimal signal. Avoid positioning near concrete walls, metal or reflective surfaces, or any other objects that may interfere with RF reception.
- Ensure plenty of ventilation. Avoid installing the device in enclosed spaces.
- Do not install the device in direct exposure to the elements. Extreme heat or cold can and will impact the router's performance.
- Refer to the IBR200 Safety, Regulatory, and Warranty Guide (included with your hardware) for more information about location considerations.

SIM Card for Wireless Connectivity

A wireless broadband data plan must be added to your Cradlepoint IBR200 series branch router for wireless broadband connectivity. Wireless broadband data plans are available from network operators such as Verizon, AT&T, Telstra, etc. The SIM card must be activated and provisioned by the network operator. Contact your network operator for details about selecting a data plan and about the process for provisioning your SIM.

Required Tools for Setup

- #0 Philips-head screwdriver (for battery door cover)

Setup

The following instructions walk through basic setup of the Cradlepoint IBR200 router. For more advanced setups, contact a professional installer.

STEP 1: Check box for content.

Refer to the following to ensure you received all items included with the IBR200 hardware.

- [1] Cradlepoint IBR200 router
- [1] Power supply
- [2] LTE antennas
- [1] Wi-Fi antenna
- [1] SIM door screw
- [1] Getting Started reference sheet
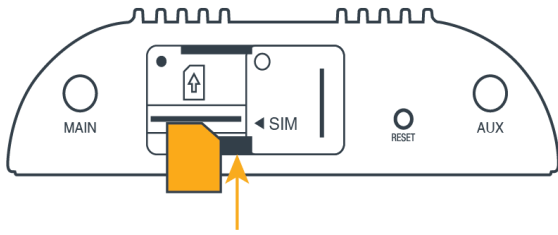- [1] Safety, Regulatory, and Warranty guide

STEP 2: Open the SIM cover.

Remove the screw from the SIM slot cover and slide the cover to the right.
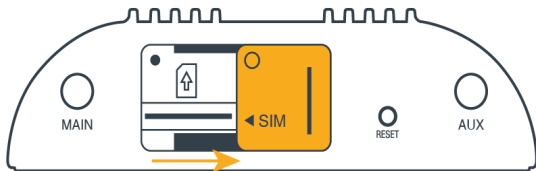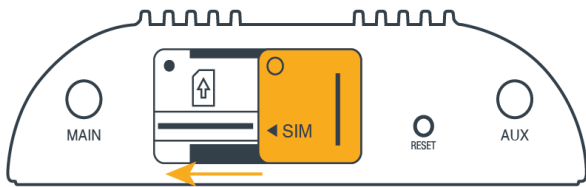

STEP 3: Insert an active 2FF-sized SIM.

Insert an activated 2FF-sized SIM card into the SIM slot (contacts down, notch in). The SIM card will click into place. NOTE: To remove, depress the SIM card.

### STEP 4: Close and secure the SIM slot cover.

Slide the SIM cover to the left and replace the screw. Tighten the screw to secure the cover.

STEP 5: Attach the LTE cellular antennas.

Install the LTE cellular (paddle) antennas on the MAIN and AUX ports.

- Hold the antenna straight and twist the base to thread onto the connector.
- Tighten with fingers only (maximum torque not to exceed 4 in-lbs). o Do not over-tighten.
- Once the router is mounted and powered on, angle the antennas for optimal signal reception.
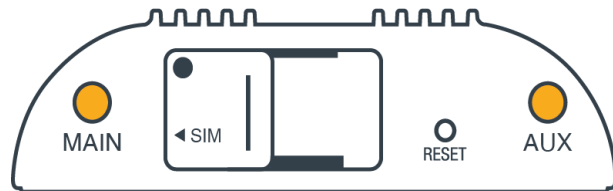
STEP 6: Attach the Wi-Fi antenna.

Install the Wi-Fi antenna on the port marked 2.4/5GHz.

- Hold the antenna straight and twist the base to thread onto the connector.
- Tighten with fingers only (maximum torque not to exceed 4 in-lbs).
- Do not over-tighten.
- Once the router is mounted and powered on, angle the antennas for optimal signal reception.
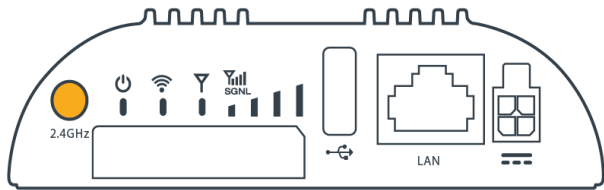
STEP 7: Mount the router.

The IBR200 router may be affixed to a wall or mounted on the ceiling. Refer to the following for best practices:

- Hold the router in the desired position and location and then use a pen or marker to mark the placement location for the screws.
- Ensure the mounting location is away from objects that cause RF interference, including concrete, reflective and metal surface, microwaves, and so on.
- Pre-drill holes for the mounting screws.
- Use wall anchors to ensure the endpoint is securely mounted.

STEP 8: Connect the Ethernet cable.

Connect the Ethernet cable to the port marked LAN on the back of the IBR200. Connect the other end to your cable modem.
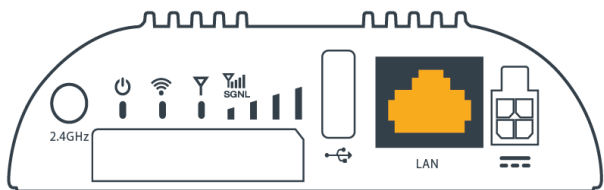

STEP 9: Power up the router.

Insert the 4-pin end of the power source into the four-pin port on the router, ensuring appropriate alignment of pins as illustrated below.

GPIO Connector Pin Details

| PIN	Wire Color	Definition	Details
1	Black	Ground	Ground to the vehicle chassis
2	Red	Power	VDC battery constant
3	Orange	Input	VDC ignition sensing accessory input
4	Blue	Output	General purpose I/O (GPIO)

- Plug the adapter into an electrical socket.
- Allow 1 minute for the router to run through its bootup sequence.
- Refer to the Understanding LEDs section of this guide for more information about LED indicator status.
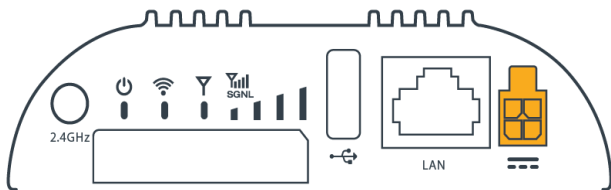
Step 10: Active the router in NetCloud Manager.

Activating your Cradlepoint router requires logging into your NetCloud Manager account. Refer to Getting Started with NetCloud Manager for more information.

Understanding LEDs
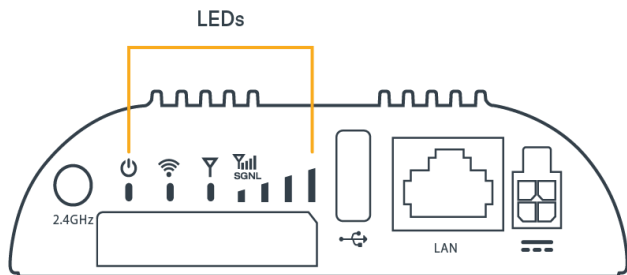
The IBR200 router uses LED lights on the front panel to communicate various status conditions. Use the table below to verify the status of your router after the 1-minute bootup cycle.

STATUS INDICATOR	BEHAVIOR	
⏻	**POWER**: The Cradlepoint IBR200 must be powered using an approved 54 VDC power source.	
	|	• **No Light** = Not receiving power. Check the power switch and the power source connection
	|	• **Green** = Powered on
	(blinking green)	• **Blinking Green** = Powered by battery
	|	• **Yellow** = Attention is needed. Log into NCM and use the Remote Connect menu to access the router's NCOS to manage the alert. ○ Examples: Battery at less than 20%; default Password is unchanged, endpoint is not registered in NCM, etc
	(blinking yellow)	• **Blinking Yellow** = The battery needs to be replaced or the installed battery can only hold 60% or less of its original capacity.
▮▮▮▮	**SIGNAL STRENGTH**: LED bars indicate the active modem's signal strength	
	(bars)	• **No Light** = Wi-Fi is not operating.
	(4 solid bars)	• **4 Solid Bars** = Strongest signal.
	(1 blinking bar)	• **1 Blinking Bar** = Weakest signal (a blinking bar indicates half of a bar).
	(4 blinking bars)	• **4 Blinking Bars** = SIM door is not installed, modem is off.
Y	**EMBEDDED MODEM**: Indicates connection status for the embedded (internal) modem.	
	|	• **No Light** = Modem is not connected.

STATUS INDICATOR		BEHAVIOR
		• **Solid Green** = Modem has established an active connection.
		• **Blinking Green** = Modem is connecting.
		• **Solid Yellow** = Modem is not active.
		• **Blinking Yellow** = Data connection error. No modem connection possible.
		• **Blinking Red** = Modem is in the process of resetting.
	WI-FI: Indicates the Wi-Fi status.	
		• **No Light** = Wi-Fi is not operating.
		• **Blue** = Wi-Fi is on and operating normally (2.4GHz and/or 5GHz)
OTHER	ADDITIONAL LED INDICATIONS	
	ETHERNET PORT LIGHTS: LEDs on either side of each Ethernet port on the backside of the endpoint indicating connection status. • **Green** = 1Gbps Link/Activity • **Yellow** = 10/100 Link/Activity	

Troubleshooting

If the device takes longer than 5 minutes to connect to the Internet, log into the local UI of the device to make configuration changes or to start the troubleshooting process. You must be physically co-located with the device in order to do this. Refer to NCOS: No Internet or Connection Issues (/s/article/NCOS-No-Internet-or-Connection-Issues) for additional help.

Resources

IBR200 Spec Sheet (https://resources.cradlepoint.com/product-docs/spec-sheet-cor-ibr200)

IBR200 Webpage (https://cradlepoint.com/product/endpoints/ibr200/)

Help and Support

Cradlepoint Customer Connect Community (https://customer.cradlepoint.com/s/)

Cradlepoint Support Services (https://cradlepoint.com/support/)

IBR200 Router Models

This document applies to the following IBR200 models:

CRADLEPOINT IBR200-10M-VZ	S3A748A
CRADLEPOINT IBR250-10M-VZ	S3A753A
CRADLEPOINT IBR200-10M-B-AT	S3A749A
CRADLEPOINT IBR250-10M-B-AT	S3A754A
CRADLEPOINT IBR200-10M-C-SP	S3A838A
CRADLEPOINT IBR250-10M-C-SP	S3A843A
CRADLEPOINT IBR200-10M-D-EU	S3A910A

CRADLEPOINT IBR250-10M-D-EU	S3A915A
CRADLEPOINT IBR200-10M-E-AP	S3A911A
CRADLEPOINT IBR250-10M-E-AP	S3A916A

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