

# COR IBR1700

## Cloud-Managed Mobile Networks



### THANK YOU FOR CHOOSING CRADLEPOINT

Cradlepoint is the leading provider of secure, cloud-managed LTE networking solutions for distributed and mobile enterprises with hundreds or thousands of locations. The COR IBR1700 is a ruggedized high-performance mobile router designed for mission-critical applications that require 24x7 connectivity.

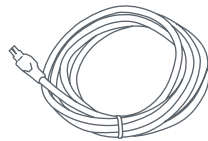
*Everywhere you connect, we give you an Edge. Connect More. Wire Less.*

#### COR IBR1700 Key Features:

- + Cloud-managed
- + 3 WiFi radios
- + Ignition sensing
- + 9-33 VDC input range
- + Active GPS & dead reckoning
- + SIM-based auto-carrier selection
- + Fully ruggedized metal housing
- + Dual SIMs per modem
- + Embedded LTE modem
- + MC400 slot for 2nd modem
- + 5 gigabit Ethernet ports
- + Serial port
- + Analog to digital inputs

Go to [cradlepoint.com/ibr1700](http://cradlepoint.com/ibr1700) to learn more.

#### WHAT'S INCLUDED:

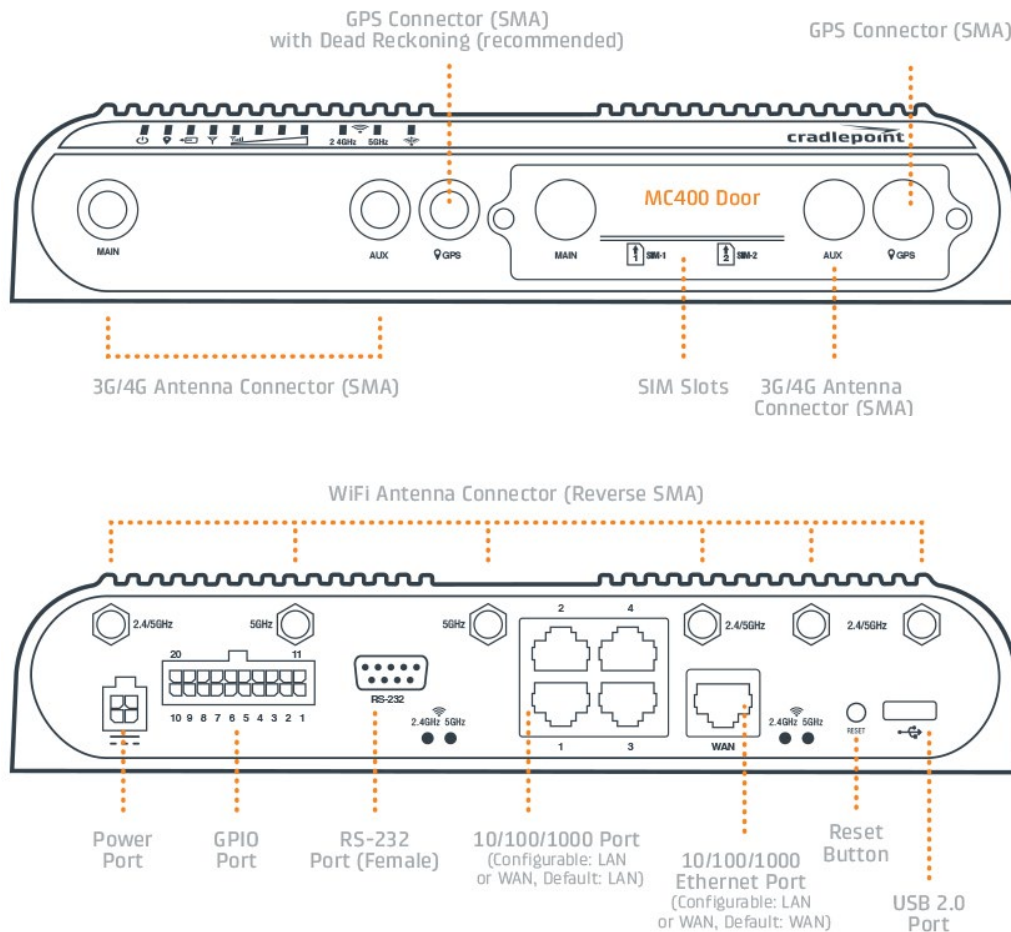


GPI0 / Power Cable



Spare SIM / Modem Door Screws

## Device Details



### Model / Regulatory Numbers:

IBR1700-600M S5A741A

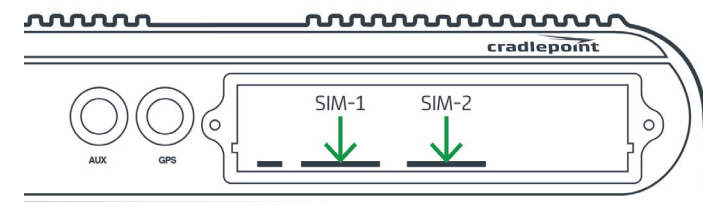
## Getting Started

### Setting Up the Router

- + Purchase a data plan. Insert the SIM as shown in the following step.
- + Connect WiFi, modem, and GPS antennas as desired (finger tight only).
- + Connect to power (9-33 VDC input range).

### Inserting or Removing a SIM Card

1. Remove the MC400 door screws and cover.
  - + Embedded modem: Insert the SIM card with metal contacts **up** and notch in. It will click into place. Depress again to remove.
  - + MC400: Place the SIM with metal contacts **down** and notch in. It will click into place. Depress again to remove.
3. Replace the SIM cover or the modem will not power on.

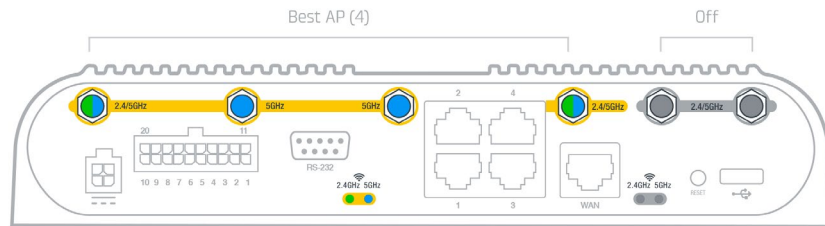


## WiFi Antenna Configuration

For WiFi setup, use our Quick WiFi Setup Wizard or configure each radio manually.

To utilize the Quick WiFi Setup Wizard, log into NetCloud OS and go to "System > Setup Wizards > Quick WiFi Setup." Select the WiFi configuration that best matches your needs from the dropdown.

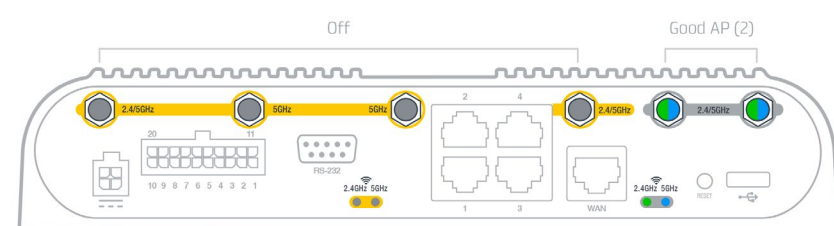
### Best AP (4 Connectors)



In Best AP mode, four antenna ports are active. Best use cases include High Bandwidth Access Point.

**Antenna: 4**

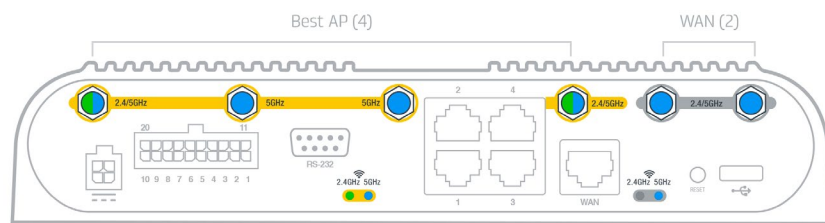
### Good AP (2 Connectors)



In Good AP mode, only two antenna ports are active. Best use cases include Medium Bandwidth Access Point with least number of antennas

**Antenna: 2**

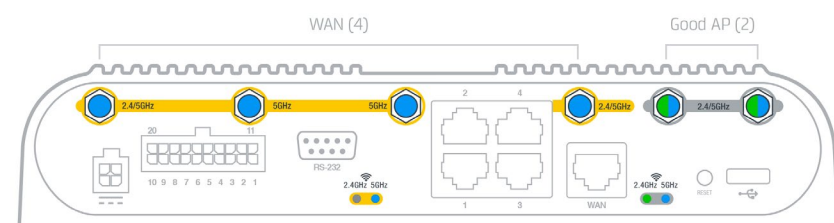
### Best AP (4 Connectors) + WAN (2 Connectors)



In Best AP + WAN mode, all six antenna ports are active. Best use cases include High Bandwidth Access Point with WiFi-as-WAN.

**Antenna: 6**

### Good AP (2 Connectors) + WAN (4 Connectors)



In Good AP + WAN mode, all six antenna ports are active. Best use cases include Medium Bandwidth Access Point with better WiFi-as-WAN.

**Antenna: 6**

## Deploy & Manage Your Device with NetCloud Manager

Your new device includes a subscription to NetCloud Manager (NCM), which allows you to configure and manage your new device remotely.

NetCloud Manager is a network management application that helps businesses deploy, configure, and collect actionable intelligence for any registered device. It also includes SD-WAN capabilities, like policy and orchestration, to enhance the security and scalability of your network and business operations.

**Explore everything you can do with NetCloud Manager.** Visit [cradlepoint.com/netcloud-manager](https://cradlepoint.com/netcloud-manager) or call us at: +1 855-813-3385

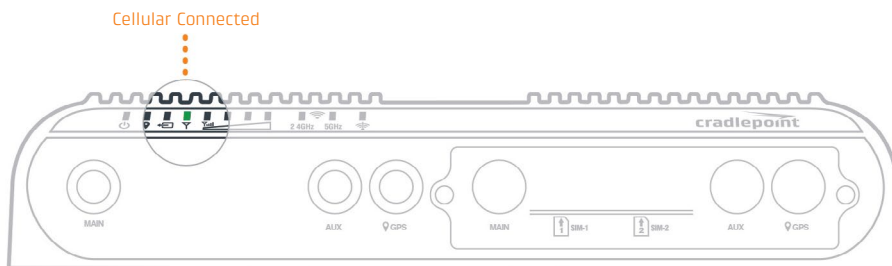
### Accessing NetCloud Manager

Wait for the device to connect to a network (WAN) through the SIM or via Ethernet. (See diagram below.)

To configure and manage your device via the cloud, log into NetCloud Manager. Open a browser to [cradlepointecm.com](https://cradlepointecm.com) and log in with the NetCloud Manager credentials received by email with your account information. Navigate to “Devices > Routers” to configure the router. To create, modify, and manage the router in a group, go to “Groups > Router Groups.”

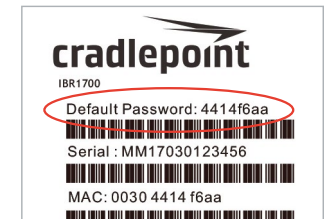


If the device does not establish a cellular connection within 60 seconds, you may need to make configuration changes via the local UI for NetCloud OS. If needed, follow the instructions in the next section to log into NetCloud OS.



### Local Access to NetCloud OS

1. Connect to the router via Ethernet or WiFi.
2. Open the browser, type “cp/” or “192.168.0.1” and press enter.
3. Enter the eight-digit Administrator Password found on the product label.
4. Upon first-time login, you'll automatically be directed to the First Time Setup Wizard.



*Note: The power/attention LED will show amber until the user changes the default Administrator and WiFi passwords. Default passwords must be changed to secure the router.*

## Updating NetCloud OS

Cradlepoint regularly updates and enhances NetCloud OS. You may need to update NetCloud OS to use the IBR1700 with new modems and to access our latest features.

1. Log in at [cradlepointecm.com](http://cradlepointecm.com) using your NetCloud Manager credentials.
2. Navigate to the “Groups” page.
3. Select a group and click on the NetCloud OS option in the top toolbar. In the dropdown menu that opens, select the desired version. Wait for NetCloud OS to load.

## Activating Your Modem

A Cradlepoint router requires a SIM with an active data subscription to a wireless broadband data plan to connect to a wireless network. SIMs with wireless broadband data plans are available from wireless carriers such as AT&T, Verizon, Sprint, T-Mobile, EE, and Vodafone. Carriers offer several different types of data plans and Cradlepoint works with most (Mobile broadband, M2M, and router pricing plans; private and public APNS; and static or dynamic IP addresses).

For more information on activation see [cradlepoint.com/activation](http://cradlepoint.com/activation).

## GPS

The IBR1700 comes with an active GPS connection at 3.3 V and 100 mA max and supports TAIP and NMEA protocols. For full functionality you will need to use an active GPS antenna.

## Router Communication / Data Usage

The factory default configuration of the router is set to communicate with Cradlepoint and other resources at regular intervals to access the latest NetCloud OS and modem updates, clock synchronization (NTP), and NetCloud Manager membership. Such communication may result in data usage and applicable charges regardless of whether the router uses a wired or wireless Internet connection. To avoid such data usage and potential charges, consult the following Knowledge Base article:

<http://knowledgebase.cradlepoint.com/articles/support/router-communication-data-usage>