

Register your CBA750 Mobile Broadband Adapter Today!

~ YOU WILL RECEIVE ~

- Technical Support
- New Product Information
- Firmware Upgrades
- Special Offers & Promotions

cradlepoint.com/register

What's Included In The Box

- Mobile Broadband Adapter
- Ethernet Cable
- Power Adapter
- Mounting Hardware
- Quick Start Guide

CBA750

Mobile Broadband Adapter 3G/4G Ready



ABOUT THE CBA750

The CradlePoint CBA750 Adapter provides on-demand Ethernet WAN connectivity using plug-in 3G and 4G modems.

The CradlePoint CBA750 Adapter is typically used to provide backup (failover) Internet connectivity.

FEATURES

- FLEXIBLE** Uses either Power-over-Ethernet or Included AC Adapter
- SIMPLE TO USE** Modem Hot-Swap and Automatic Detection
- DURABLE** Robust Housing for Wide Application Use
- COMPATIBLE** Supports a Broad Range of Devices
- SECURE ACCESSORY** Modem Security Enclosure Available
- RELIABLE** Supports up to 4 Modems with Failover For Reliable Connectivity

ACCESSORIES

Modem Security Enclosure

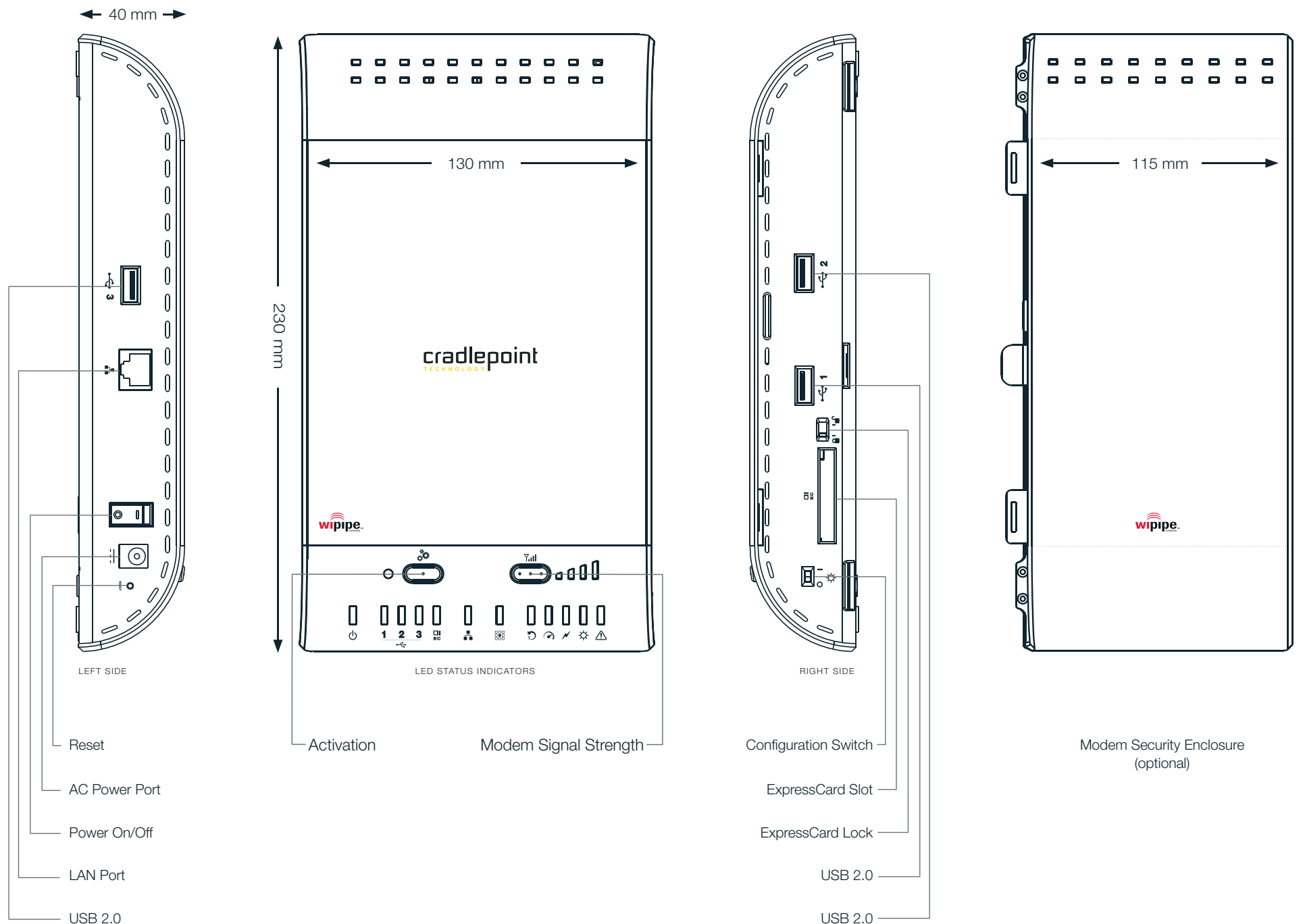
Protect your USB and ExpressCard modems with our security enclosure, specially designed for the **CBA750**.

- External Cellular Modem Antenna Holes
- Star-Topped Security Screws
- Vented for Proper Air Flow

\$ **29⁹⁹**



PORT DIAGRAM



Setting Up Your Adapter

- 1 Connect Mobile Broadband Device**
Plug a USB or ExpressCard data modem into the appropriate slot.
The data modem should have an active data plan.
- 2 Connect Power Supply**
Connect the included power adapter if not using Power-over-Ethernet (PoE).
- 3 Place CBA750 Adapter In Best Signal Location**
Use Modem Signal Strength display to find the best location for the CBA750 Adapter.
Use provided mounting hardware if desired.
- 4 Connect To A Router or Switch**
Plug the Ethernet cable into a routing device or switch.

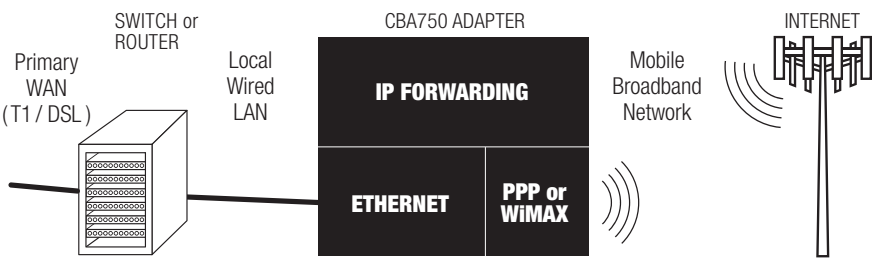
For most users, the CBA750 Adapter can be used without configuration. When needed, set the Configuration switch to “O” to place the unit into configuration mode.

Configuration mode is used to set up user parameters, download new firmware, and enable cellular modem diagnostics by accessing the administration page at <http://192.168.0.1>

TECHNICAL INFORMATION FOR THE CBA750

Firmware Features

IP Forwarding/Pass-Through between a Mobile Broadband Network and Local LAN Connection



- WAN Connectivity Is Via Mobile Broadband Modem Only.
- IP Pass-Through is from a Mobile Broadband Modem to local wired Ethernet.
- Only one machine on the local Ethernet interface is supported.
This client receives the IP address assigned to the PPP link's local address.
- The adapter is modal: it has pass-through mode and a configuration mode. ✖
Changing between modes is done by changing the configuration switch setting.
- The adapter implements the PPP protocol for communication over the Mobile Broadband network.
Security parameters can be configured via the CBA750 Administration Page.

Manually Updating Firmware (available in configuration mode only)

The CBA750 Adapter features “Auto Save and Restore”.
This preserves custom settings settings when firmware is updated.

- 1) Connect your Modem/Aircard to your computer or use another source to get online.
- 2) Download the newest firmware by going to cradlepoint.com/support/cba750.
- 3) Under “Firmware and Drivers” save the most recent version to your computer.
- 4) Disconnect from the internet, remove the Modem/Aircard from your computer and set aside.
- 5) Flip the configuration switch to **O** and power back on.
- 6) Connect your computer to the router via Ethernet cable (see reverse side).
- 7) Open your web browser (ex: Internet Explorer) and type <http://192.168.0.1> in the address line and hit enter.
- 8) The default password is the last six characters our the MAC address, located on the bottom of the router.
- 9) Select the **TOOLS** tab on the top navigation, then the **FIRMWARE** menu on the left.
- 10) Look for **MANUALLY UPGRADE FIRMWARE** section, click **BROWSE**.
- 11) Browse for the new firmware file you downloaded in Step 2 and click **OPEN**.
- 12) Click the **UPLOAD** button. The upgrade proces can take a minute or two.
- 13) Flip the configuration switch back to **I** and power back on after configuration is complete.
- 14) Re-insert your Modem/Aircard into the CBA750.

DO NOT TURN OFF OR UNPLUG THE DEVICE WHILE IT IS UPGRADING.

Regulatory Information



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. This device must accept any interference received, including interference that may cause undesired operation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.



Changes or modifications not expressly approved by CradlePoint, Inc. could void the user's authority to operate the product.

Radio Frequency Interference Requirement - Canada

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

LED Status Indicators and Descriptions

The status lights provide information as to what is happening within the bridge.

- When you press the Activation Button**
Pressed Press to manually activate the primary modem if necessary.
(The primary modem can be identified and set in CBA750 Adapter Administration page.)
While activating, “Failover” & “High Speed” LEDs will blink green.
When completed, unplug the modem and re-insert into CBA750 Adapter to re-establish connection.
If there is an error during activation, “Attention” LED will blink red
- When you press the Signal Strength Button**
Blue Indicates a bar of the active modem's signal strength (increments of half-bars) blinking for 10 seconds.
1-4 Bars One Blinking Bar = Weakest Signal Four Full Bars = Strongest Signal
- The CBA750 Adapter must be powered using an approved power source.**
Green Powered on.
No Light Not receiving power. Check that the unit is connected to an outlet or Ethernet cable with PoE.
- The CBA750 Adapter connects via an Ethernet cable to your switch or router**
Green Connected to an active Ethernet interface, blinking lights indicate traffic.
No Light Not connected to Ethernet, the connection is not configured correctly, or switch or router is not configured correctly (or turned on).
- The CBA750 Adapter works with USB or ExpressCard Mobile Broadband Modems with active data plans.**
Green Data connection has been established with your mobile network, blinking indicates connection attempt.
Amber Modem is not active and may be engaged in the failover process, blinking indicates connection error.
Red Modem communication error.
No Light Mobile network is unavailable or connection is still in progress.
Standard connection time is 15-30 seconds.
If Data Modem LEDs are not illuminated, it may be required to update firmware on either the bridge or modem.
- The CBA750 Adapter indicates whether or not data is being transmitted**
Green Blinking indicates data is actively being transferred.
No Light No data is being transferred.
- The CBA750 Adapter signals when it has entered failover when there is more than one modem attached.**
Green Primary modem has failed over to the secondary modem.
No Light Primary modem is operating normally.
- The CBA750 Adapter signals when the modem is receiving higher network speeds**
Green Modem is operating in EVDO or other high-speed modes.
No Light Modem is operating in 1xRTT other low-speed mode such as EDGE.
- The CBA750 Adapter can use Power-over-Ethernet**
Green Unit is operating from PoE.
No Light Unit is operating from 12V AC Input (AC or Car Adapter).
- The CBA750 Adapter has two mode states - Configuration Mode and Pass-Through Mode**
Green Unit is operating in configuration mode.  configuration mode
No Light Unit is operating in pass-through mode.  pass-through mode
- The CBA750 Adapter uses this to signal attention is needed**
Green Check for courtesy message (ie: new firmware version is available).
Amber A matter of some interest has occurred.
Red Critical system error has occurred, or no modem connected / detected.
No Light No user intervention is required.

Still Have Questions??

Visit our knowledgebase, where you can find out most of your product questions.

cradlepoint.com/knowledge-base

Enter a support case with your information to speed the process of technical support.

cradlepoint.com/support-case

We provide live chat support Monday-Friday 7am-7pm MST.

cradlepoint.com/chat-support