

Cellular Broadband Adapter
with Optional Integrated Business-Grade Modem



Optional: ARC Series package includes Integrated Business-Grade Modem with antennas



Quick Start Guide

What's In The Box



Cellular Broadband Adapter



AC Power Supply



Ethernet Cable



Mounting Hardware



Quick Start Guide

SETTING UP THE CBA750B



- 1) Connect a CradlePoint business-grade or USB/ExpressCard wireless broadband data modem with active subscription.

Integrated Business-Grade Modem (Optional)



A) Purchase a data plan. Insert SIM if model requires.



B) Connect modem to CBA750B. Insert screws on backside.



C) Insert antennas (finger tight only).

- 2) Plug the power supply into an electrical outlet.
- 3) Connect the power supply to the CBA750B. Ensure power is switched on. O = OFF I = ON

for more information about your product, visit: www.cradlepoint.com/cba750b **cradlepoint**

ACCESSING THE ADMINISTRATION PAGES

To make configuration changes to your router, open the CBA750B's GUI-based administration pages.

- 1) Open a browser window and type "**cp/**" or "**192.168.0.1**" in the address bar. **PRESS ENTER/RETURN.**
- 2) When prompted for your password, type the **eight character DEFAULT PASSWORD** found on the product label.

THE FIRST TIME SETUP WIZARD

When you log in for the first time, you are automatically directed to the **FIRST TIME SETUP WIZARD**, which will help you customize your CBA750B. Change any of the following:

- Administrator Password
- Time Zone
- Access Point Name (APN) for SIM-based modems
- Modem Authentication
- Failure Check mode

Once you have made changes, review the details and record your administrator password. Click **APPLY** to save your settings.

NOTE: To return to the First Time Setup Wizard after your initial login, select **GETTING STARTED** on the top navigation bar and **FIRST TIME SETUP** in the dropdown menu.

RESET: To restore the CBA750B to its factory default settings, press and hold the **RESET** button on the side of the device for ten seconds. Reset returns the login password to the **DEFAULT PASSWORD** and resets all configuration changes.



IP PASSTHROUGH SETUP

The CBA750B's IP passthrough function takes the IP address of the attached modem and passes it through to the LAN. By default, the CBA750B is configured for IP passthrough – the device ships with the **ROUTER/PASSTHROUGH SWITCH** set to the I position ("O" is router mode; "I" is passthrough mode). Using IP passthrough disables some of the device's other router functionality.

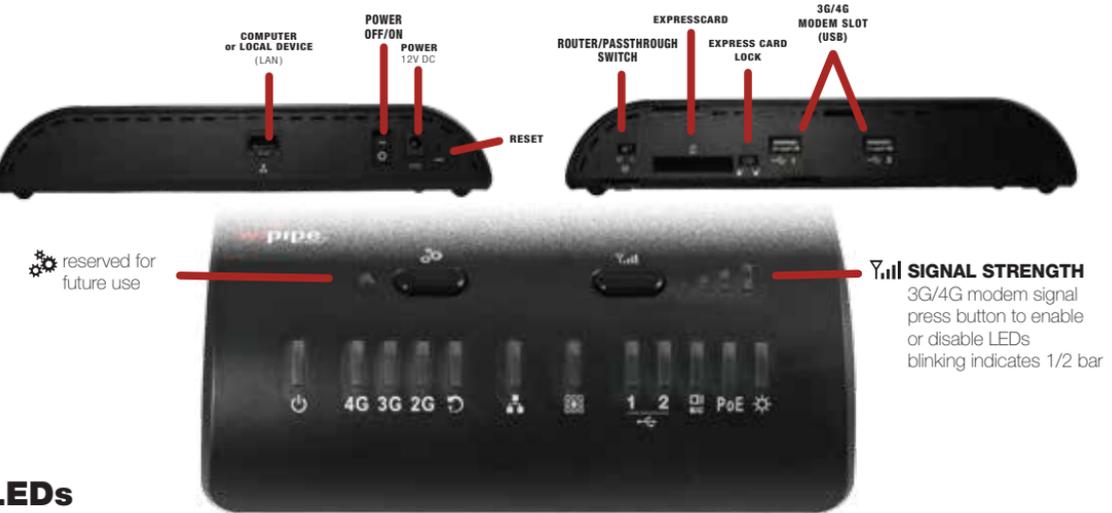
There are three methods for setting up IP passthrough:

- 1) The **ROUTER/PASSTHROUGH SWITCH** on the device itself is set to "I". The I setting forces a complete IP passthrough configuration with the following settings:
 - Load balance is disabled; the highest priority WAN device is used.
 - The Routing Mode is set to IP Passthrough.
 - The Subnet Selection Mode is set to "Automatically Create Subnet".
 - If you have created secondary networks, they are disabled: only the primary LAN is enabled.
- 2) In the administration pages, select **GETTING STARTED → IP PASSTHROUGH SETUP**. This wizard will force an IP passthrough configuration that matches the **ROUTER/PASSTHROUGH SWITCH** settings shown above.
- 3) For custom configuration, manually input IP passthrough settings in the administration pages (this is the preferred method for network professionals). Go to **NETWORK SETTINGS → LOCAL NETWORKS** for most of these changes. Depending on your settings, you may need to go to other pages as well.

NOTE: Changes in the administration pages can overrule the switch setting, AND vice versa (i.e. the most recent setting changes are implemented, regardless of method). In the administration pages you can set the device to ignore changes to the router/passthrough switch. This option is listed under **ADMINISTRATION → SYSTEM SETTINGS** under the "Local Management" tab. Click on the "Disable IP Passthrough/Configuration mode switch" option.

For additional information about this product, visit: www.cradlepoint.com/cba750b

PORTS, SWITCHES, & LEDs



- POWER**
solid: on
- LAN**
on: connected
- WAN DATA ACTIVITY**
on: data is actively being transferred
off: no data is being transferred
- USB/EXPRESSCARD MODEM STATUS**
green: connected
blinking green: connecting
amber: not active, may be engaged in failover process
blinking amber: connection error
blinking red: modem resetting
- POE POWER OVER ETHERNET**
on: CBA750B is in PoE mode
- ROUTER/PASSTHROUGH MODES**
corresponds to the router/passthrough switch
- ROUTER/PASSTHROUGH SWITCH**
○ router mode = LED green
○ | | passthrough mode = LED off

UPDATING FIRMWARE

CradlePoint regularly creates new firmware packages. You may need to update firmware to use the CBA750B with new modems and to access our latest features. Visit knowledgebase.cradlepoint.com for more information.

HOW TO UPDATE FIRMWARE

- 1) Log in to the administration pages (see page 3). You may have changed the **ADMINISTRATOR PASSWORD** when you used the **FIRST TIME SETUP WIZARD**.
- 2) Select **SYSTEM SETTINGS → SYSTEM SOFTWARE**.
- 3) Find the **FIRMWARE UPGRADE** section. This displays the current firmware version that is installed and indicate if updated firmware is available.
- 4) Click **AUTOMATIC (Internet)** if new firmware is available. The CBA750B will download and install the firmware and automatically reboot itself. A status monitor will appear and indicate when this process is complete. This process may take several minutes depending on your Internet connection speed.

If your device does not have an active Internet connection (i.e. the modem is not working on older firmware), you need to download the latest firmware from www.cradlepoint.com/firmware to your desktop. Then use the **MANUAL FIRMWARE UPLOAD** option.

CRADLEPOINT ENTERPRISE CLOUD MANAGER NEXT GENERATION NETWORK MANAGEMENT AND APPLICATION PLATFORM

Rapidly deploy and dynamically manage networks at geographically distributed stores and branch locations with Enterprise Cloud Manager, CradlePoint's next generation management and application platform. Enterprise Cloud Manager integrates cloud management with your CradlePoint devices to improve productivity, increase reliability, reduce costs, and enhance the intelligence of your network and business operations.

Subscription required. See cradlepoint.com/ecm for details.

This important Product Information and Safety Guide contains safety, handling, disposal, regulatory, trademark, copyright, and software licensing information. Read all safety information below and operating instructions before using the CBA750B device to avoid injury.

FEDERAL COMMUNICATION COMMISSION INTERFERENCE STATEMENT 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. 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 to correct the interference by one 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/TV technician for help.

FCC CAUTION: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator & your body.

To comply with FCC regulations limiting both maximum RF output power and human exposure to RF radiation, for the CBA750B-LE the maximum antenna gain must not exceed 8 dBi in the cellular band, 3 dBi in the PCS band and 10 dBi in the LTE band. For the CBA750B-LP the maximum antenna gain including cable loss must not exceed 7.5 dBi in the cellular band, 3 dBi in the PCS band, 5.5 dBi in LTE Band 4, and 9 dBi in LTE Band 17. For the CBA750B-W the maximum antenna gain must not exceed 9.2 dBi in the 2.5 GHz band (2496-2690 MHz).

SAFETY AND HAZARDS Under no circumstances should the CBA750B device be used in any areas (a) where blasting is in progress, (b) where explosive atmospheres may be present, or (c) that are near (i) medical or life support equipment, or (ii) any equipment which may be susceptible to any form of radio interference. In such areas, the CBA750B device MUST BE POWERED OFF AT ALL TIMES (since the device otherwise could transmit signals that might interfere with such equipment). In addition, under no circumstances should the CBA750B device be used in any aircraft, regardless of whether the aircraft is on the ground or in flight. In any aircraft, the CBA750B device MUST BE POWERED OFF AT ALL TIMES (since the device otherwise could transmit signals that might interfere with various onboard systems on such aircraft). Furthermore, under no circumstances should the CBA750B device be used by the driver or operator of any vehicle. Such use of the device will detract from the driver's or operator's control of that vehicle. In some jurisdictions, use of the CBA750B device while driving or operating a vehicle constitutes a civil and/or criminal offense.

Due to the nature of wireless communications, transmission and reception of data by the CBA750B device can never be guaranteed, and it is possible that data communicated or transmitted wirelessly may be delayed, corrupted (i.e., contain errors), or totally lost. The CBA750B device is not intended for, and CradlePoint recommends the device not be used in, any critical applications where failure to transmit or receive data could result in property damage or loss or personal injury of any kind (including death) to the user or to any other party. CradlePoint expressly disclaims liability for damages of any kind resulting from: (a) delays, errors, or losses of any data transmitted or received using the device; or (b) any failure of the device to transmit or receive such data.

Warning: This product is only to be installed by qualified personnel!

Industry Canada Statement
This device complies with RSS-210, RSS-102, and RSS-Gen of the Industry Canada Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Déclaration d'Industrie Canada
Ce dispositif est conforme à la norme CNR-210, CNR-102, et CNR-Gen d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

WARRANTY INFORMATION CradlePoint, Inc. warrants this product against defects in materials and workmanship to the original purchaser (or the first purchaser in the case of resale by an authorized distributor) for a period of one (1) year from the date of shipment. This warranty is limited to a repair or replacement of the product, at CradlePoint's discretion as purchaser's sole and exclusive remedy. CradlePoint does not warrant that the operation of the device will meet your requirements or be error free. Within thirty (30) days of receipt should the product fail for any reason other than damage due to customer negligence, purchaser may return the product to the point of purchase for a full refund of the purchase price. If the purchaser wishes to upgrade or convert to another CradlePoint, Inc. product within the thirty (30) day period, purchaser may return the product and apply the full purchase price toward the purchase of another CradlePoint product. Any other return will be subject to CradlePoint, Inc.'s existing return policy.

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Part Number: 170545-004