

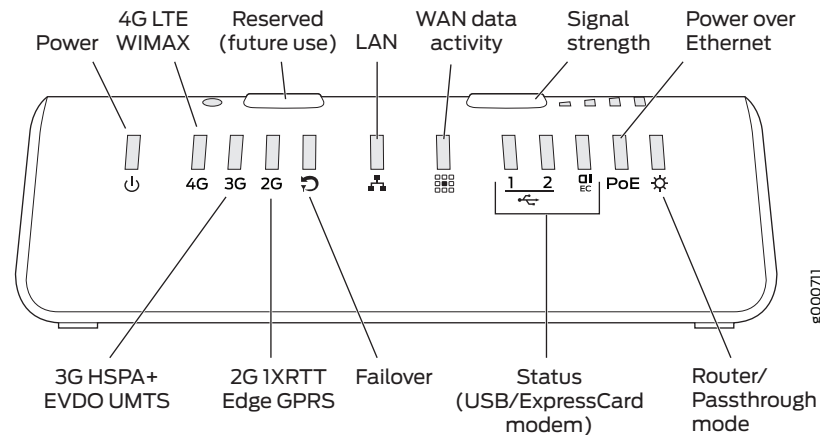
How to Set Up Your CBA750B 3G/4G Wireless WAN Bridge



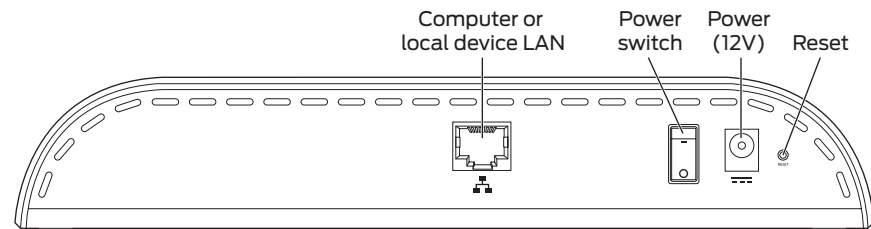
The CBA750B mobile broadband series adapters enable easy-to-install wireless WAN connectivity in fixed business locations.

The CBA750B 3G/4G wireless WAN bridge appliance provides wireless connectivity as either a backup or primary connection for branch SRX Series Services Gateways.

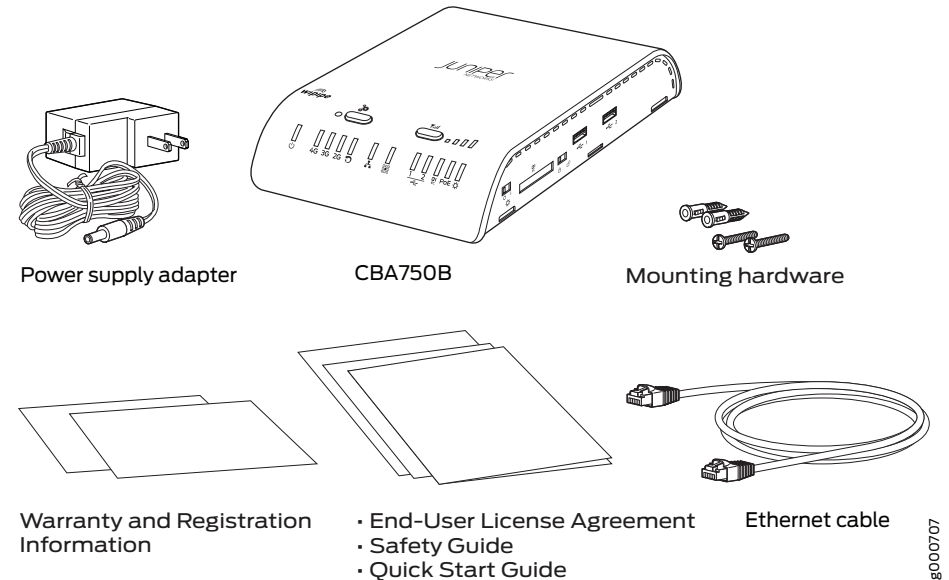
Front Panel



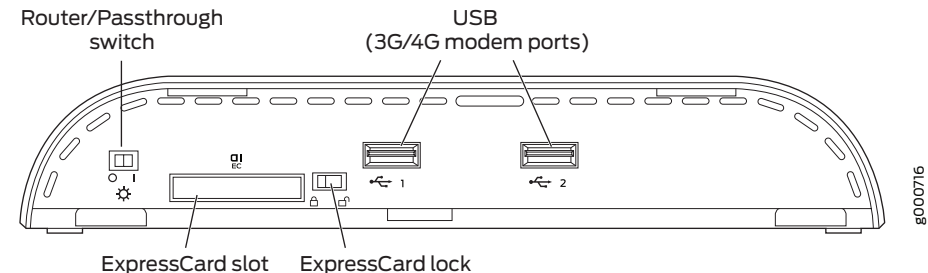
Left Side Panel



Package Contents



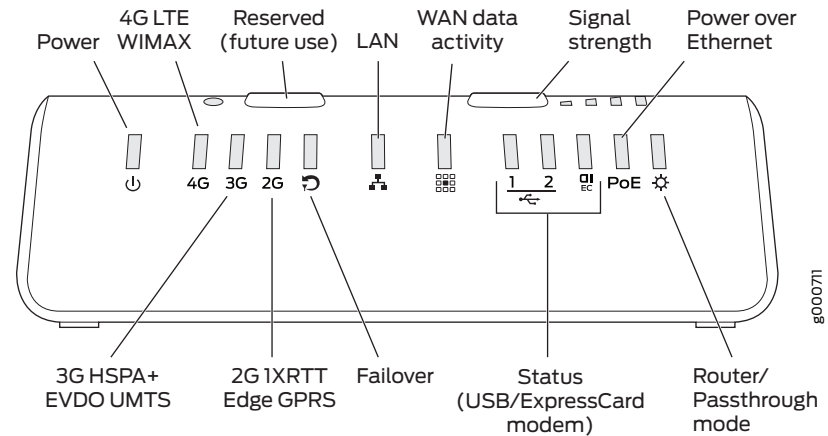
Right Side Panel



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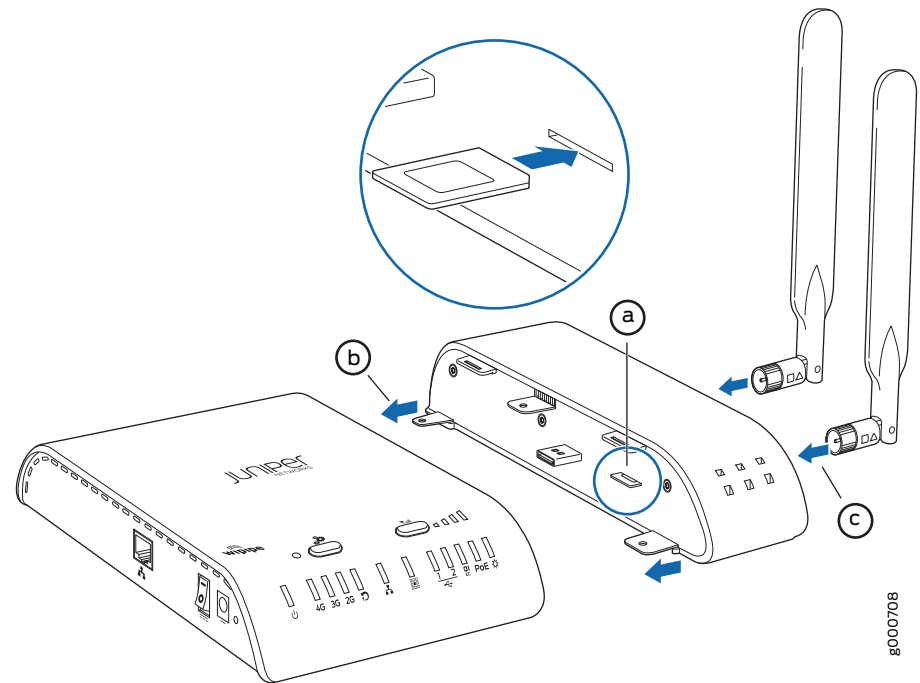
CBA750B 3G/4G Wireless WAN Bridge LEDs

LED	State
Power	Solid: On
4G	On: Primary connection is 4G
3G	On: Primary connection is 3G
2G	On: Primary connection is 2G
Failover	On: Secondary WAN is in use Off: Primary WAN operating normally
LAN	On: Connected
WAN data activity	On: Data is actively being transferred Off: No data is being transferred
Status (USB/ExpressCard modem)	Green: Connected Blinking green: Connecting Amber: Not active, might be engaged in failover process Blinking amber: Connection error Blinking red: Modem resetting
PoE	On: CBA750B is in PoE mode
Router/Passthrough modes	Green: Router mode Off: Passthrough mode NOTE: This LED matches the switch setting rather than the actual configuration (it is possible to overrule the switch settings from the administration pages).



Set Up Your CBA750B 3G/4G Wireless WAN Bridge

- Connect a Juniper Networks business-grade or USB/ExpressCard wireless broadband data modem with active subscription.
(Optional) To integrate a business-grade modem:
 - Purchase a data plan. Insert a SIM card if the model requires one.
 - Connect the modem to the CBA750B.
 - Insert the screws into the modem and insert antennas (finger-tight only).
- Plug the power supply into an electrical outlet.
- Connect the power supply to the CBA750B and switch the device on (I).



Access the Administration Pages

The CBA750B can be used immediately without any configuration changes. If you want to configure any of the advanced features, log in to the administration pages.

To access the administration pages:

1. Open a browser window and type **cp/** or **192.168.0.1** in the address bar. Press Enter.
2. When prompted for your password, type the eight-character default password found on the product label.

Your unique default password is shown on the product label on the bottom of your CBA750B.

Configure the CBA750B Using the First Time Setup Wizard

When you log in for the first time, you are automatically directed to the First Time Setup Wizard, which helps you customize your CBA750B.

To configure the CBA750B:

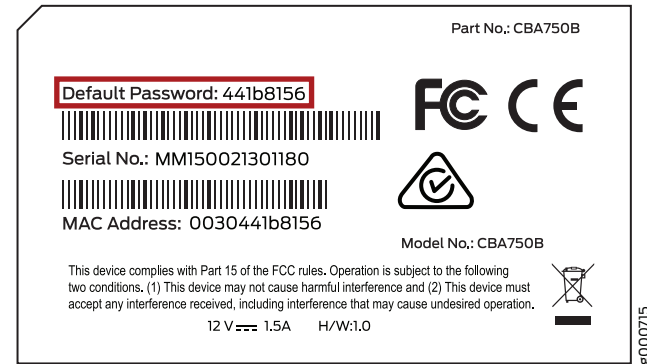
1. To change any of the following options, follow the prompts in the wizard:
 - Administrator password
 - Time zone
 - Access point name (APN) for SIM-based modems
 - Modem authentication
 - Failure Check mode

After making the changes, review the details and record your administrator password.

2. Click **Apply** to save your settings.



NOTE: To return to the First Time Setup Wizard after your initial login, select **Getting Started → First Time Setup** on the top navigation bar.



Getting Started / First Time Setup Wizard

Setting Your Administrative Password and Time Zone

Administrator Password

To secure your router, please set and verify the administration password below.

Your default password is printed on the product sticker found on the back of your product. The administration password allows you to modify all router settings.

This is separate from the WiFi security password, which you will establish in the next step.

Administrator Password: ●●●●●●●●

Verify password: ●●●●●●●●

Time Zone

Selecting your Time Zone allows the router to keep the proper date and time for your location.

Time Zone: Mountain

Back

Next

Reset the Configuration

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.

Set Up IP Passthrough

The CBA750B's IP passthrough function passes the IP address of the attached modem 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). The IP passthrough function disables some of the router functionality on the device.

There are three methods for setting up IP passthrough:

1. By default, the Router/Passthrough switch on the device 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.
 - Routing Mode is set to IP Passthrough.
 - 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. On the administration pages, select **Getting Started → IP Passthrough Setup**. This wizard will force an IP passthrough configuration that matches the Router/Passthrough switch settings in method 1.
3. For a custom configuration, manually enter the IP passthrough settings on 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 might also need to change the settings on the other pages.



NOTE: Changes on the administration pages can overrule the switch setting, and vice versa (the most recent setting changes are implemented, regardless of the method). On the administration pages, you can set the device to ignore changes to the Router/Passthrough switch. Select **Administration → System Settings** from the Local Management tab, and then click **Disable IP Passthrough/Configuration mode switch**.

Update the Firmware

Juniper Networks regularly creates new firmware packages. You might need to update the firmware to use the CBA750B with new modems and to access the latest features.

To update the firmware:

1. Log in to the administration pages. You might 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 indicates if an updated firmware is available.
4. Download the latest firmware to your desktop from the Juniper Customer Support website: <http://www.juniper.net/support/downloads/>.
5. Click **Manual Firmware Upload**.

Regulatory and Safety Information

Read all operating instructions and the safety information below and 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 and 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.

