

# CradlePoint ARC CBA750B Series

## INTEGRATED MOBILE BROADBAND ADAPTER

Wireless WAN connectivity for distributed business locations



### Mobile Broadband to Ethernet Adapter

#### WIRELESS WAN CONNECTIVITY

The CradlePoint CBA750B integrated mobile broadband series adapters enable easy-to-install wireless WAN connectivity in fixed-business locations. For distributed enterprises like branch offices, retail stores, restaurants, and small businesses, the CBA750B provides 3G/4G wireless network connectivity to keep your business up and running.

#### FAILOVER MADE SIMPLE

The CradlePoint CBA750B 3G/4G cellular broadband adapter provides IP passthrough capabilities for any device that requires wireless broadband access. For most applications, simply connect the CBA750B to an existing CPE router configured for WAN failover, and it's ready to go. The CBA750B handles the wireless WAN connection through the integrated 3G/4G modem when failover occurs.

#### PRIMARY CONNECT IS EASY TOO

For temporary networks – or when wired connections are impractical – the CBA750B can serve as a primary-connect device, converting mobile broadband to Ethernet for point-of-sale tools, digital signs, and kiosks.

#### KEY FEATURES

- Integrated 3G/4G mobile broadband connectivity
- Drop into existing network for a turnkey failover solution
- Remote management capabilities
- Power-over-Ethernet
- IPv6 support

#### PERFORMANCE AND RELIABILITY

Engineered for day-in, day-out 24/7 Internet connectivity, the integrated business series products extend the benefits of WiPipe technology across the router and the modem, ensuring reliable connections when you need them. In router mode the CBA750B has access to most of CradlePoint's powerful suite of routing capabilities. Power-over-Ethernet enables flexible mounting location, and external high-gain antennas ensure optimal performance in areas of low signal strength.

#### CRADLEPOINT ENTERPRISE CLOUD MANAGER

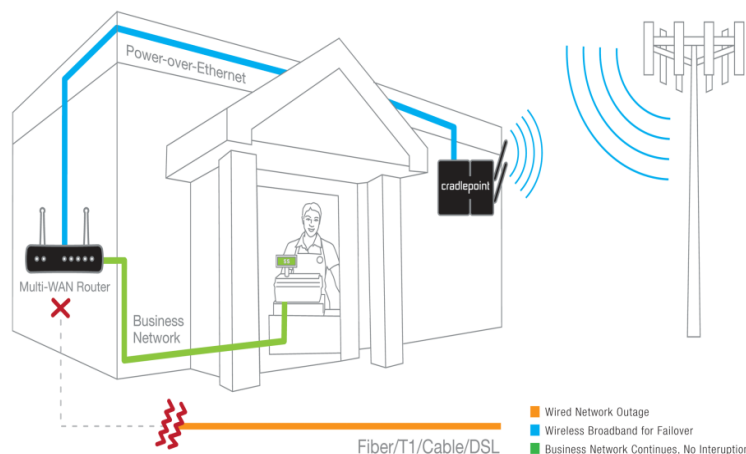
Rapidly deploy and dynamically manage networks at geographically distributed locations with Enterprise Cloud Manager, CradlePoint's next generation application platform. Improve productivity, reduce costs, and enhance the intelligence of your network and business operations.

*Subscription required. See [cradlepoint.com/ecm](http://cradlepoint.com/ecm) for details.*

#### CRADLE CARE SERVICES

The CBA750B comes with a standard 1 year warranty. For extended warranties and other enhanced services including enterprise-level support, site surveys, and expert installation, check out CradlePoint's CradleCare suite of services.

*Subscription required. See [cradlepoint.com/cradlecare](http://cradlepoint.com/cradlecare) for details.*



[www.cradlepoint.com/ARCCBA750B](http://www.cradlepoint.com/ARCCBA750B)

# ARC CBA750B Integrated Series Cellular Broadband Adapter

## Key Features and Benefits

The CBA750B seamlessly transfers the power and flexibility of 3G/4G mobile broadband connectivity to your local network for business applications.

### Internet Access and Device Connectivity

Integrated high-speed 3G/4G modem – see attached specifications

1 Ethernet LAN port for local Ethernet-enabled devices

WiPipe Technology Modem Health Management with 24x7 connection verification ensures the wireless connection will be there when you need it

### Security

SPI (stateful packet inspection) firewall and NAT (Network Address Translation) to prevent unwanted access to connected computers

Variety of security features (URL filtering, IP & traffic filtering, DMZ, port forwarding) for safer Internet access

Advanced security mode and reporting to facilitate PCI-DSS compliance

802.1Q VLAN support to isolate, segment, and secure network traffic

### Flexibility

First-time setup wizard for easy, swift, and secure setup

One-page dashboard to view router status and configuration

IP passthrough support provides broadband-to-Ethernet adapter; configure automatically with switch or setup wizard

Power-over-Ethernet – enables flexible location for convenience and best reception using existing CAT-5 cabling

Remote management with CradlePoint Enterprise Cloud Manager

SNMP v1/2c/3 and CLI over SSH

Data usage tracking with alerts to monitor data usage and avoid overages

Advanced diagnostics tools including: tcpdump, netfilter, traceroute

IPv6 support

Advanced APN management

Roaming control and ability to force 3G or 4G bands

Router services (e.g. Enterprise Cloud Manager) can be routed over LAN for devices in IP passthrough/failover mode – no data passed over 3G/4G connection

### Service, Support, and Warranty

CradleCare Premier 1, 2, 3, and 5 year Enterprise Support Agreements available with 24/7 technical support, software upgrades, and advanced hardware exchange

Limited 1 year warranty included, access to software updates and hardware repair or replacement – 2, 3, and 5 year warranty extensions available

CradleCare Site Survey and Installation services offered for rapid deployment

## Specifications

### WAN

Integrated modem – see below for SKU options

### LAN

One 10/100 Ethernet port

### TEMPERATURE

0°C to 50°C (32°F to 122°F) Operating  
-20°C to 70°C (-4°F to 158°F) Storage

### RELATIVE HUMIDITY (non-condensing)

10% to 85%, operating  
5% to 90%, storage

### SIZE

9 x 7.25 x 1.6 in (230 x 185 x 40 mm) (ARC LE or LP)  
9 x 9.6 x 1.6 in (230 x 244 x 40 mm) (ARC W)

### WEIGHT

1.5 lb (600g)

### CERTIFICATIONS

FCC, CE, IC, carrier (certifications depend on the specific model – see SKUs)

## What's In The Box (Integrated Versions)

CBA750B with integrated business-grade modem

External mobile broadband modem antennas (2) (SMA) w/ multiplexing for GPS (on some models)

CAT5 Ethernet cable

12V / 1.5A power supply

Quick Start Guide with warranty information

## Accessories

High-gain external antennas (Omni-directional, Patch, Yagi, 12" Mag-mount, 4" Mini mag-mount), see [www.cradlepoint.com/CBA750B](http://www.cradlepoint.com/CBA750B) for more

## Requirements

**Internet Service** Active mobile broadband plan with cellular provider

**Browser** (to configure router) Minimum of Firefox v2.0, Internet Explorer v7.0, Chrome, or Safari v1.0

## Router Details

**WAN Security** NAT, SPI, ALG, inbound filtering of IP addresses, port blocking, service filtering (FTP, SMTP, HTTP, RPL, SNMP, DNS, ICMP, NNTP, POP3, SSH), protocol filtering, WAN ping (allow/ignore)

**Management** CradlePoint Enterprise Cloud Manager: cloud-enabled management and application platform (subscription-based); web-based GUI (local management), optional RADIUS or TACACS+ username/password; remote WAN web-based management w/ access control (HTTP, HTTPS); SNMP v1, v2c & v3, CLI over SSH, SSH to serial, SSH to telnet, API; one-button firmware upgrade; modem configuration, update, and management; modem data usage and alerts, per-client data usage; custom AT scripting to modems

**Intelligent Routing** UPnP, DMZ, virtual server/port forwarding, routing rules, NAT-less routing, wireless WAN-to-LAN IP passthrough, route management, per-interface routing, content filtering, IP filtering, website filtering, per-client Web filtering, local DHCP server, DHCP client, DHCP relay, DNS, DNS proxy; ALGs: PPTP, L2TP, PPPoE passthrough, IPSec passthrough, FTP (passive), FTP (active), SIP, TFTP, IRC, MAC address filtering, Dynamic DNS, VLAN support (802.1Q), IPv6

**Performance & Health Monitoring** Modem Health Management (MHM) improves connectivity of modem, WAN port speed control, WAN failure detection, several levels of basic and advanced logging for troubleshooting

**GPS** Standalone GPS supported on most models (see attached); GUI mapping as well as local (LAN) or remote (WAN) server logging

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One-year limited hardware warranty only available in the US and Canada. Product specifications are subject to change without notice, and product appearance may differ from image depicted on this package. This product requires either an active subscription from a wireless service provider or an Ethernet-based broadband service from an Internet service provider to receive Internet service. Check with your broadband provider for service coverage, fees, and other charges. © 2013 CradlePoint, Inc. All rights reserved. CradlePoint, WiPipe™, and the WiPipe logo are trademarks of CradlePoint, Inc. in the US and other countries. Other trademarks are the property of their respective owners.

## CradlePoint Enterprise Cloud Manager



### DEPLOY AND MANAGE THE INTELLIGENT NETWORK

Rapidly deploy and dynamically manage networks at geographically distributed locations with Enterprise Cloud Manager, CradlePoint's next generation application platform. Improve productivity, reduce costs, and enhance the intelligence of your network and business operations.

- **DEPLOYMENT** – configure devices by groups or individually, and update firmware easily with a few clicks.
- **MANAGEMENT** – monitor device statuses in real-time and set proactive alerts for optimized 3G/4G data usage and network uptime.
- **INTELLIGENCE** – view network analytics and manage security and PCI compliance.

Annual and multi-year licenses available. See [cradlepoint.com/ecm](http://cradlepoint.com/ecm) for details.

### ARC Integrated Business Series Routers

ARC CBA750B-LE-VZ	Business series router with dual-mode, high-performance <b>4G LTE / EVDO</b> wireless WAN connection for the Verizon network
ARC CBA750B-LP-AT	Business series router with dual-mode, high-performance <b>4G LTE / HSPA+</b> wireless WAN connection for the AT&T network
ARC CBA750B-W	Business series router with high-performance <b>WiMAX</b> wireless WAN connection for the Sprint or CLEAR networks
ARC CBA750B-LP2-EU	Business series router with dual-mode, high-performance <b>4G LTE / HSPA+</b> wireless WAN connection for Europe
ARC CBA750B-LP	Business series router with dual-mode, high-performance <b>4G LTE / HSPA+</b> wireless WAN connection for Canada

### CradleCare Enterprise Support Agreements and Professional Services

CradleCare Premium	When your applications are mission critical, you need the assurance that only the CradleCare Premier plan can provide: 24-hour coverage every day, all year. 1, 2, 3, and 5 year plans available: 24/7 technical support, software upgrades, and advanced hardware exchange.
CradleCare Warranty Extension	This plan represents an extension of the standard 1-year CradlePoint warranty to 2, 3, or 5 years. Includes one-time enterprise technical support; software bug fixes; access to CradlePoint Enterprise Advanced Services Knowledge Base and online documentation; hardware repair/replacement.
CradleCare Standard 3G/4G Site Survey	Comprehensive carrier analysis for optimal performance: on-site engineer with proprietary site survey tool; 3G/4G RF testing on the major carriers; WiFi coverage testing; specified operating location; external antennas and POE testing; mapping and photos; data capture; report generation, including recommendations.
CradleCare Standard Installation	Deploy the experts to ensure a successful installation and operations: Installation Statement of Work (SOW); installation, mounting of CradlePoint equipment; installation of customer-specific equipment; cabling and mounting of antennas; extended wiring; configuration of all equipment; operational testing; report generation.

### Accessories (see CradlePoint's antenna ordering and installation guide for more information)

Part # 170587-000	Directional Patch antennas for external (outside) mounting
Part # 170588-000	Directional Yagi (Log-Periodic) antennas for external (outside) mounting
Part # 170586-000	Omni-directional antennas for external (outside) mounting
Part # 170605-000	12" Mag-mount antenna
Part # 170606-000	4" Mini mag-mount antenna

# ARC SERIES INTEGRATED MODEM SPECIFICATIONS: U.S. CARRIERS

ARC CBA750B-LE-VZ	4G/3G LTE/EVDO for Verizon
<b>Technology:</b> LTE, EVDO Rev A	
<b>Downlink Rates:</b> LTE 100 Mbps, EVDO 3.1 Mbps (theoretical)	
<b>Uplink Rates:</b> LTE 50 Mbps, EVDO 1.8 Mbps (theoretical)	
<b>Frequency Bands:</b> <ul style="list-style-type: none"> <li>LTE Band 13 (700 MHz)</li> <li>CDMA EVDO Rev A/1xRTT (800/1900 MHz)</li> </ul>	
<b>Power:</b> LTE 23 +/- 1 dBm, EVDO 24 +/- 1 dBm (typical conducted)	
<b>Module:</b> Sierra Wireless MC7750	
<b>Antennas:</b> two SMA male (plug), 1 dBi (LTE), 2 dBi (Cellular/PCS) gain; finger tighten only; maximum torque spec is 7 kgf-cm	
<b>GPS:</b> standalone GPS support	
<b>Industry Standards &amp; Certs:</b> FCC, Verizon	
<b>Modem Part Number:</b> MC200LE	

ARC CBA750B-LP-AT	4G/3G LTE/HSPA+ for AT&T
<b>Technology:</b> LTE, HSPA+	
<b>Downlink Rates:</b> LTE 100 Mbps, HSPA+ 21.1 Mbps (theoretical)	
<b>Uplink Rates:</b> LTE 50 Mbps, HSPA+ 5.76 Mbps (theoretical)	
<b>Frequency Bands:</b> <ul style="list-style-type: none"> <li>LTE Band 17 (700 MHz), Band 4 (AWS)</li> <li>HSPA+/UMTS (850/1900/2100 MHz)</li> <li>GSM/GPRS/EDGE (850/900/1800/1900 MHz)</li> </ul>	
<b>Power:</b> LTE 23 +/- 1 dBm, UMTS 23 +/- 1 dBm (typical conducted)	
<b>Module:</b> Sierra Wireless MC7700	
<b>Antennas:</b> two SMA male (plug), 1 dBi (LTE), 2 dBi (Cellular/PCS) gain; finger tighten only; support for GPS on aux connection	
<b>GPS:</b> standalone GPS support	
<b>Industry Standards &amp; Certs:</b> PTCRB, FCC, IC, AT&T	
<b>Modem Part Number:</b> MC200LP	

ARC CBA750B-W	4G WiMAX for Sprint or CLEAR
<b>Technology:</b> WiMAX 802.16e Wave 2	
<b>Downlink Rates:</b> 10 Mbps peak, 6 Mbps average	
<b>Uplink Rates:</b> 5 Mbps peak, 1.2 Mbps average	
<b>Frequency Band:</b> 2500 MHz band	
<b>Power:</b> 23.5 +/- 0.5 dBm (RSU/CPE)	
<b>Module:</b> Beceem 250 chipset	
<b>Antennas:</b> two SMA male (plug), 5 dBi gain; finger tighten only; maximum torque spec is 7 kgf-cm	
<b>GPS:</b> no GPS support	
<b>Industry Standards &amp; Certs:</b> FCC, Sprint, CLEAR	
<b>Modem Part Number:</b> MC100W	

# ARC SERIES INTEGRATED MODEM SPECIFICATIONS: INTERNATIONAL

ARC CBA750B-LP2-EU    4G/3G LTE/HSPA+ for Europe
<b>Technology:</b> LTE, HSPA+
<b>Downlink Rates:</b> LTE 100 Mbps, HSPA+ 21.1 Mbps (theoretical)
<b>Uplink Rates:</b> LTE 50 Mbps, HSPA+ 5.76 Mbps (theoretical)
<b>Frequency Bands:</b> <ul style="list-style-type: none"><li>• LTE (800/900/1800/2100/2600 MHz)</li><li>• HSPA+/UMTS (900/2100 MHz)</li><li>• GSM/GPRS/EDGE (900/1800/1900 MHz)</li></ul>
<b>Power:</b> LTE 23 +/- 1 dBm, UMTS 23 +/- 1 dBm (typical conducted)
<b>Module:</b> Sierra Wireless MC7710
<b>Antennas:</b> two SMA male (plug), 1 dBi (LTE), 2 dBi (Cellular/PCS) gain; finger tighten only; support for GPS on aux connection
<b>GPS:</b> standalone GPS support
<b>Industry Standards &amp; Certs:</b> CE, GCF-CC
<b>Modem Part Number:</b> MC200LP2

ARC CBA750B-LP (Canada)    4G/3G LTE/HSPA+
<b>Technology:</b> LTE, HSPA+
<b>Downlink Rates:</b> LTE 100 Mbps, HSPA+ 21.1 Mbps (theoretical)
<b>Uplink Rates:</b> LTE 50 Mbps, HSPA+ 5.76 Mbps (theoretical)
<b>Frequency Bands:</b> <ul style="list-style-type: none"><li>• LTE Band 17 (700 MHz), Band 4 (AWS)</li><li>• HSPA+/UMTS (850/1900/2100 MHz)</li><li>• GSM/GPRS/EDGE (850/900/1800/1900 MHz)</li></ul>
<b>Power:</b> LTE 23 +/- 1 dBm, UMTS 23 +/- 1 dBm (typical conducted)
<b>Module:</b> Sierra Wireless MC7700
<b>Antennas:</b> two SMA male (plug), 1 dBi (LTE), 2 dBi (Cellular/PCS) gain; finger tighten only; support for GPS on aux connection
<b>GPS:</b> standalone GPS support
<b>Industry Standards &amp; Certs:</b> PTCRB, FCC, IC
<b>Modem Part Number:</b> MC200LP