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Data Sheet

CBA550 Series LTE Adapter

2023 - 08 - 17

Designed for remote sites that require secure, reliable failover connectivity in the event of a primary link disruption, the CBA550 Series LTE Adapter is a simple addition at the branch which significantly improves uptime and business continuity. These sophisticated device scan be configured at scale with NetCloud to offer a full range of zero-touch deployment, troubleshooting, and management features and integrate into existing configurations.

4G LTE for Failover Link Diversity

LTE wireless WANs provide a powerful, flexible, and cost-effective failover option to minimize disruption in the event of an outage. Working in conjunction with an existing router or SD-WAN, the CBA550 Series Adapter establishes a cellular connection based on established failover policies. With this adapter, many remote location operations and applications continue functioning while in failover.

Day-1 Connectivity for Rapid Deployment

Establish secure network connections to get operations running while waiting for a wired connection. CBA550 Series Adapters uniquely connect through LTE independently of the primary link so they do not require prior connection through wired networks. Cradlepoint wireless broadband solutions can be set up in hours with zero-touch deployment without IT staff on location, so local personnel can set up the network. Once the wired link is established, the CBA550 adapter falls into backup mode.

Notable Features

— Plug-and-play failover, adaptive to any networking and SD-WAN environment

— Embedded LTE with SIM-based Auto-Carrier Selection

— Power-over-Ethernet (PoE)

— External antenna options

— Cloud-managed for ease of deployment, remote management, and reporting
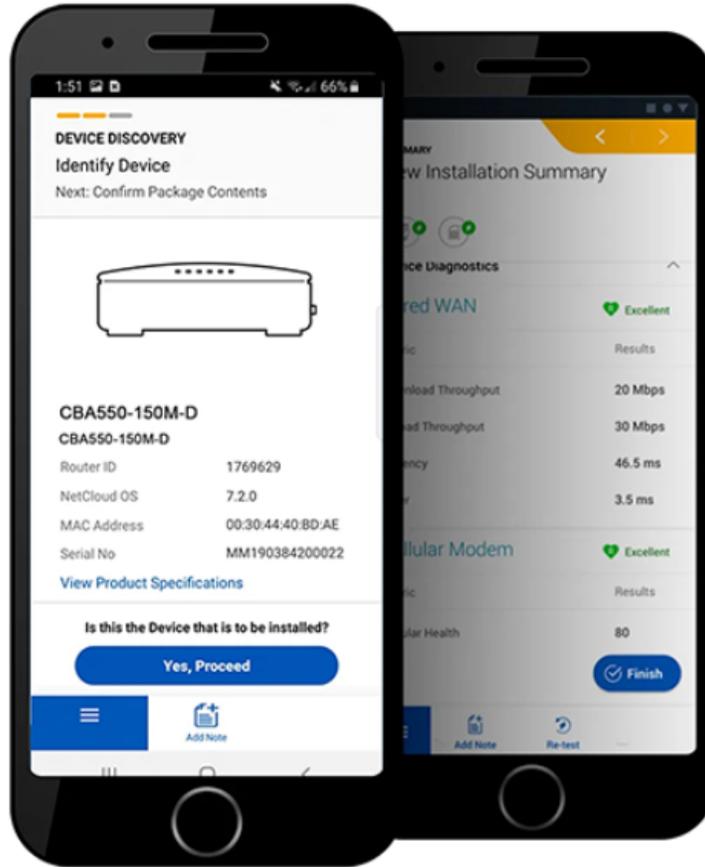
Product Page

NetCloud Service

Quick Start Guide

Key Software Capabilities

The NetCloud Service provides everything needed to unlock the power of LTE at the network edge and connect devices to critical applications and services. It enables customers to build and manage wireless WANs with complete lifecycle management, true zero-touch deployment, and robust security. The service includes a warranty for as long as there is an active subscription on the router, online training, live and online support, and all software and firmware updates.

Cradlepoint Verify™ Mobile Application

As an extension to NetCloud, Cradlepoint Verify helps installers quickly and accurately install the CBA550 Series Adapter for optimal LTE signal reception. Upon a verified installation, users receive a detailed report that includes installation pictures, speed test results, and modem health metrics.

Hardware Specifications

The following features are delivered through the hardware.

INTERFACES	
Modem:	Embedded LTE Category 4, 4G LTE
	— 2 x SMA cellular antenna connectors
Ethernet:	1 x 10/100 Ethernet ports
Wi-Fi:	N/A
GNSS/GPS:	N/A
ENVIRONMENTAL	

Temperature:	— 0 °C to 50 °C (32 °F to 122 °F) operating
	— -20 °C to 70 °C (-4 °F to 158 °F) storage
Humidity:	— 10% to 85% operating
	— 5% to 90% storage

PHYSICAL

| Size: | 100 x 100 x 34 mm (3.9 x 3.9 x 1.33 in) |
| Weight: | 0.18 kg (6.2 oz) |

RELIABILITY

| Calculated MTBF: | — 150M-D: 1,662,691 hours (Telcordia SR332 at 25 °C) |
| | — 150M-E: 1,617,264 hours (Telcordia SR332 at 25 °C) |

CERTIFICATIONS

| Safety: | UL/cUL, CB Scheme |
| Materials: | WEEE, RoHS, California Prop 65 |

CLOUD SERVICES

Service Plans:	NetCloud Service for LTE Continuity
Service Add-Ons:	NetCloud Exchange, NetCloud Advanced
Support:	NetCloud Packages include support for the full subscription term.
Warranty:	All Cradlepoint hardware products are covered by a limited lifetime warranty for as long as they have a subscription license to an active NetCloud Service Plan.
Device Management:	NetCloud Manager for the full subscription term.
Software Updates:	NetCloud Manager for the full subscription term.

PERFORMANCE

IP Passthrough Mode Throughput:	75 Mbps
Standard NAT Mode Throughput:	95 Mbps
Captive Modem Mode Throughput:	95 Mbps

LEDs

| | Refer to the CBA550 Series LTE Adapter Quick Start Guide. |

Performance testing was conducted based on requirements as defined in RFC2544 using fixed-frame 1518 byte packets. Throughput results reflect unidirectional UDP traffic with less than 1% packet loss as tested with wired connections.
Results do not reflect performance of the cellular wireless operator networks.
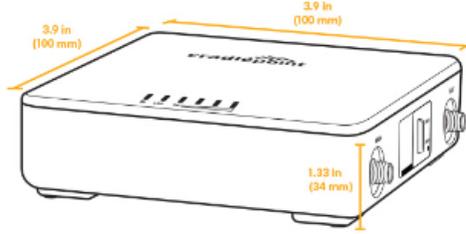
Enterprise-Class Modem Specifications

SPECIFICATION	CBA550-150M-D	CBA550-150M-E

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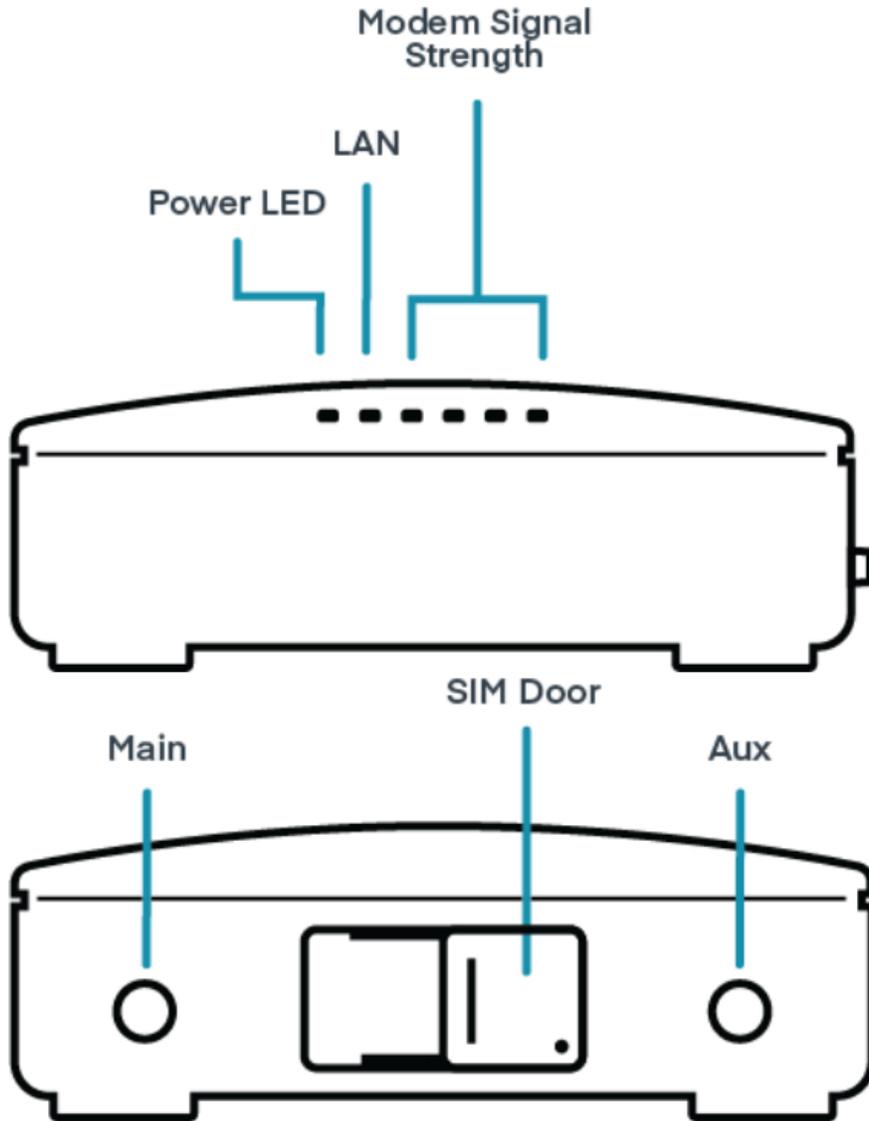
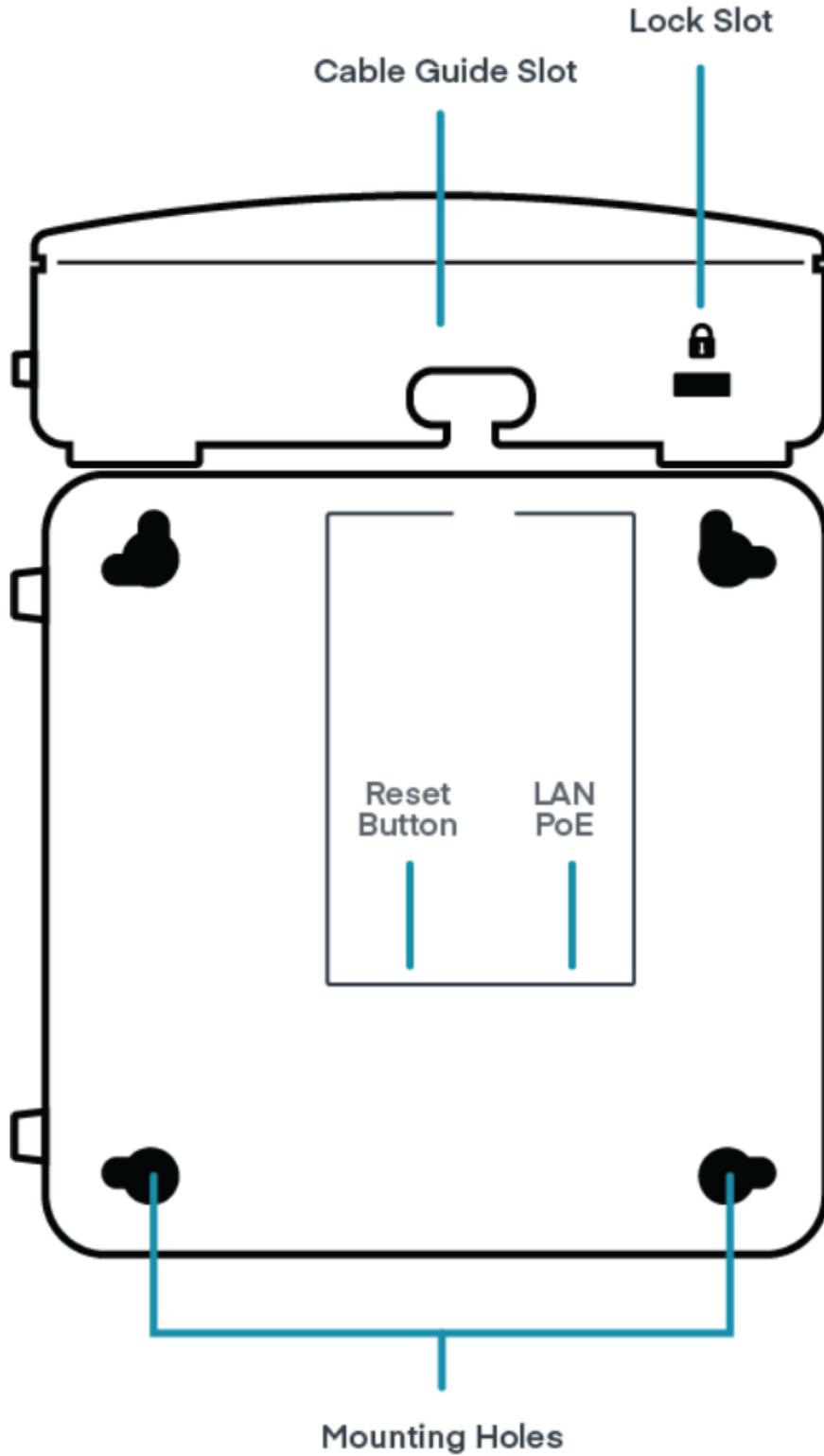|		
Technology:	Category 4 LTE (3GPP Rel. 11) — DC-HSPA+ — Dual SIM slots, 2FF form factor — SIM-based auto-carrier selection	Category 4 LTE (3GPP Rel. 11) — DC-HSPA+ — Dual SIM slots, 2FF form factor — SIM-based auto-carrier selection
Fallback:	DL/UL FDD LTE with DC-HSPA+ (150/50 Mbps)	DL/UL FDD LTE with DC-HSPA+ (150/50 Mbps)
Carrier Aggregation:	N/A	N/A
Peak Downlink Rates:	— LTE: 150 Mbps — DC-HSPA+: 42 Mbps	— LTE: 150 Mbps — DC-HSPA+: 42 Mbps
Peak Uplink Rates:	— LTE: 50 Mbps — DC-HSPA+: 5.76 Mbps	— LTE: 50 Mbps — DC-HSPA+: 5.76 Mbps
MIMO:	2x2 MIMO	2x2 MIMO
QAM:	Up to 64	Up to 64
LTE Bands:	LTE FDD — B2, B4, B5, B12, B13, B14, B66, B71	LTE FDD — B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28 LTE TDD — B38, B39, B40, B41
HSPA+ Bands:	B2, B4, B5	B1, B2, B4, B5, B6, B8, B19
Power:	LTE 23 dBm ± 1, DC-HSPA+ 23 dBm ± 1 (typial conducted)	LTE 23 dBm ± 2, DC-HSPA+ 23 dBm ± 1 (typical conducted)
Antennas:	SMA female connectors, external 600 MHz - 6 GHz cellular paddle antennas (Qty 2, included)	SMA female connectors, external 600 MHz - 6 GHz cellular paddle antennas (Qty 2, included)
GNSS/GPS:	N/A	N/A
SMS:	Yes	Yes
Regulatory:	FCC (U.S.), IC (Canada)	CE (EU), RCM (AU/NZ)
Network Operator Standards:	PTCRB (U.S., Canada)	GCF-CC (Worldwide), IDA (SG), SIRIM (MY), NOM/NYCE (MX)
Network Operator Certifications:	AT&T, T-Mobile, Verizon[†]	See note[†]
Public Safety Network Certifications:	FirstNet Trusted™	N/A
Private Cellular Network:	N/A	N/A

[†] *Cellular carriers and operators throughout the world may only require telecom industry certifications, like PTCRB or GCF, to operate on their network. Some carriers require additional testing and approval, beyond telecom certifications. A carrier listed in the approvals section means Cradlepoint completed additional testing and acquired technical approval for that given carrier. Any carrier not listed may not require additional testing or approval beyond telecom industry certifications to operate on their network.*

Physical Measurements & Features

Features

Cable Guide Slot

Lock Slot

Reset Button

LAN PoE

Mounting Holes

SIM Card Info

Nano SIM — 4FF
(12.3x8.8 mm)

Micro SIM — 3FF
(15x12 mm)

Mini SIM — 2FF
(25x15 mm)

Ordering Guide

NetCloud LTE Continuity Essentials packages and plans are full featured for performance and connectivity. Essentials and Advanced packages include 24x7 support (phone support: 24 hour weekdays with emergency response on weekends, web: 24x7, chat: 24x5) and a limited lifetime warranty.
See additional details of what is included in the Essentials NetCloud software: cradlepoint.com/products/netcloud-service

NetCloud LTE Continuity Package for the CBA550 Series LTE Adapter

REGION	MODEM	ADAPTER PACKAGE PLAN	PART NUMBER
North America: **U.S. & Canada**	150M-D	Essentials	BBx-0550150M-N0N
International: Australia, European Union, Mexico, New Zealand, South Africa, Singapore & United Kingdom	150M-E	Essentials Plan	BBx-0550150M-G0M
All Regions		Essentials	BBx-NCESS
		Advanced	BBx-NCADV
		Renewal Essentials	BBx-NCESS-R
		Renewal Essentials + Advanced	BBx-NCADV-R

x = 1, 3, or 5 years

Accessories

INCLUDED	PART NUMBER
Cellular Antenna, White mini, 600 MHz - 4.2 GHz, SMA, 145 mm (Qty. 2)	170765-000
SIM Door Screw	N/A
OPTIONAL	**PART NUMBER**
PoE Injector, 48 V, .35 A, 15.4 W, 1.8 meters (with C5 NA line cord)	170732-001
One of the following: — C5 Line Cord, 250 V, 1.8M, EU (Type F) — C5 Line Cord, 250 V, 1.8M, AU (Type I) — C5 Line Cord, 250 V, 1.8M, UK (Type G)	170733-000 170733-001 170733-002

Support & Warranty

The CBA550 Series LTE Adapters are only sold as components of NetCloud Branch LTE Adapter Essentials packages.

— NetCloud Packages include support for the full subscription term.

— All Cradlepoint hardware products are covered by a limited lifetime warranty for as long as they have a subscription license to an active NetCloud Service Plan.

More Information

Find the most up-to-date information at cradlepoint.com/cba550