

Data Sheet E3000 Series Enterprise Router

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The Cradlepoint NetCloud for Branch with E3000 Series Enterprise Router is suited for fixed offices, healthcare, financial services and retail locations, ideally when combined with need for security services at scale with performance. The all-in-one form factor includes full-featured routing, security, switching with PoE ports and Wi-Fi, making it easy to connect branches to the Internet and critical applications without the need for extra hardware or complicated configurations. And the embedded LTE or 5G modern means that connectivity is always available from day one without waiting for a wired connection.

Notable Features

- Gain agility through an embedded Cat 18 LTE or 5G NR modem for fast day-1 or primary connectivity.
- Terminate a primary wired broadband link with LTE or 5G as failover for highly resilient hybrid connectivity.
- Enable larger branch locations needing security and connections to cloud-based applications.
- Integrate into your existing network with standards-based dynamic routing and VPN tunnel support.
- Define policies through centralized, cloud-based management for easy deployment at scale.
- Add a second cellular modem for dual LTE or 5G connectivity.
- Add hardware redundancy by pairing mirrored routers with VRRP to optimize uptime.

Ideal for Wireless WAN

For an all wireless WAN, the E3000 Series router offers Gigabit LTE or 5G NR1 performance, which can support the throughput and service needs of an enterprise branch office or store with the ability to add a second LTE or 5G connection for increased available bandwidth and reliability. For organizations moving to a Wireless WAN, the E3000 Series router offers the ability to pair with a wired link and use LTE or 5G as a failover connection or a primary connection.

5G Performance Embedded or Optimized

The E3000 Enterprise Branch Router offers 5G performance in two form factors. As a router with embedded 5G, the platform ships standard with the modem as well as a second slot for dual modem capabilities. As a 5G-optimized LTE router, it has the ability to act as a controller for a Cradlepoint 5G Wideband Adapter so that the modem can be placed for optimal signal coverage. The unique capability of Cradlepoint to operate the adapter in captive mode means that the two separate, Ethernet-connected appliances can be managed as a single entity. The two form factors ensure 5G performance in the manner that best suits the deployment needs.

Performance

Stateful Firewall	IPS	Appllication Aware	IPSec VPN	Concurrent	Concurrent	Typical Client
Throughput:	Throughput:	Services & Analytics	Throughput:	VPN Tunnels:	Sessions (TCP):	Count:
2 Gbps	1.5 Gbps	1.5 Gbps	400 Mbps	20	130,000	100

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.

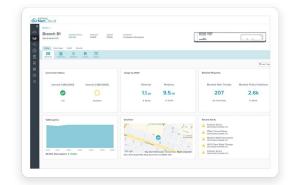


Key Software Capabilities

The Cradlepoint NetCloud for Branch with E3000 Series Router provides everything needed to unlock the power of LTE or 5G at the network edge and connect users and IoT devices to critical applications and services. NetCloud includes routing, VPN, SD-WAN, and security capabilities for robust, enterprise-class performance. Cloud-based management designed for simplification, insights and scale includes group policy definition, reports, troubleshooting, and analytics dashboards. 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.

Router Services

The next generation hardware has the processing power to handle demanding routerdelivered services, dynamic routing protocols, and application aware traffic steering, supported with our exclusive NetCloud Essentials + Advanced software package.



NetCloud		
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Biocked Web Threats	Allowed Requests	Blocked Policy Violations
30	2.8k	369
No Change	463X	410.7%
C Instruction Events by Sevenity	Blocked Requests by Category	Intrusion Events Over Time
Severy 5 Act Severy 3 Severy 3 Severy 3	tt7 Soartwises 59	Jun
- Scorty 2 Browny 2 Browny 2	30	
Boothy 1	Oraning 30 Process and Advancements	55% 55% 56% 56% 56% 55% 55% 55% 55% 55%
Informion Events by Operating System	Routers with: Default Pessavords Default Pessavord Second	Blocked Requests Over Time
217 Windows	Admin WFI	
4 Freehol		
4	6 5	
4		0478 0470 0477 0477 0477 04 0000999 000099 000004 000004 000

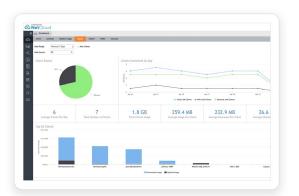
Security Services

NetCloud Essentials + Advanced packages include security features and options, such as stateful zone-based firewall, intrusion prevention, and threat protection, to optimize the E3000 series router to meet the evolving security needs of distributed environments. Additional security add-ons from leading technology partners make a rich security stack manageable from NetCloud.

Connection Manager

Connection Manager provides the ability to manage all WAN connections types, both wireless and wired, from a single software-defined policy. Our custom-built modem software ensures users establish Wireless WAN connectivity faster while maintaining the highest level of resiliency.

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QUICK LINKS		WA	۷D	evice Interface Profiles & Priority	
🕰 DASHBOARD		O A	dd	🧪 Edit 🔕 Delete 🔑 Control	
S CONNECTION MANAGER				Profile Name	Conditions
Devices					
			-	CenturyLink-WAN	type is Ethernet + uid
			80	Le Ethernet WAN (VID: 1)	(Unplugged)
			-	Ethernet-sfp0	type is Ethernet + uid
BB IDENTITIES			**	4 SFP0 WAN (VID: unset)	(Unplugged)
			atl.	LTE/3G Multi-mode Modems	type is Modem + tech
			atl.	Internal C18B (SIM1 - Verizon)	(Connected)
SECURITY			al.	Internal C188 (SIM2 - T-Mobile)	(Available)



Cloud Services

NetCloud Manager delivers true zero-touch deployment with the ability to define and deliver policy across entire groups of endpoints. Users can create a cloudorchestrated hub and spoke VPN network and gain insights and analytics required for rapid troubleshooting and diagnostic workflows.



Hardware Specifications

The following features are delivered through the hardware.

INTERFACES	
Modem:	 One of the following: Embedded 5GB Low/Mid-Band Modem 4 x SMA cellular antenna connectors Embedded C18B Modem 4 x SMA cellular antenna connectors Optional dual modem: Modular MC400 modem
Ethernet:	 9 x GbE RJ45 (LAN/WAN switchable) 1 x 2.5GbE RJ45 (LAN/WAN switchable) 1 x 10GbE SFP+ (LAN/WAN switchable) SFP: Finisar FTLF8519P3BNL, FTLF1318P3BTL SFP+: Finisar FTLX8574D3BCL, FTLX1475D3BCL, FCBG110SD1Cxx
PoE:	4 x 802.3bt PoE Type 3/4 (up to 90W per port) — 140W total PoE power budget
Wi-Fi:	 Dual-radio, dual-band, concurrent operation (2.4 GHz and 5 GHz) 4x4 MU-MIMO 802.11ax Wi-Fi 6 with DFS 1,148 Mbps (2.4 GHz) and 2,400 Mbps (5 GHz) External 4x4 antennas Global Optimized Wi-Fi WPA/WPA2/WPA3 Personal, WPA2/WPA3 Enterprise, Open 802.11k, 802.11r, 802.11v
Expansion / Console:	1 x USB 2.0 Type A (Output: 5V, 500mA, 2.5W) 1 x Expansion Slot — MC20BT Bluetooth Low Energy module 1 x RJ45 Console
GNSS/GPS:	1 x SMA GNSS antenna connector

ENVIRONMEN	TAL
Temperature:	Operating: 0 °C to 50 °C (32 °F to 122 °F) Storage: -20 °C to 85 °C (-4 °F to 185 °F)
Humidity:	Operating: 10% to 90% Storage: 5% to 95%
POWER	
Power Required:	Powered by external DC power supply, 100-240 VAC input, 54 VDC 3.34A output (included)
PHYSICAL	
Size:	6.3 x 12.6 x 1.7 in (160 x 320 x 44 mm)
Weight:	4 lb 6 oz (1.98 kg)
CERTIFICATIO	NS
Safety:	UL/cUL, CB Scheme, EN 62368-1
Materials:	WEEE, RoHS, REACH, California Prop 65
WI-FI POWER	
FCC:	2.4 GHz: 26.22 dBm Conducted
	5150–5250 MHz: 28.63 dBm Conducted
	5725–5850 MHz: 28.65 dBm Conducted
IC:	2.4 GHz: 26.22 dBm Conducted
	5150–5250 MHz: 21.70 dBm Conducted
	5725–5850 MHz: 28.65 dBm Conducted
LEDs	
Refer to the E30 Guide.	000 Series Enterprise Branch Router Quick Start



Enterprise-Class Modem Specifications

SPECIFICATION	E3000-C18B	
Technology:	Cat 18 LTE Advanced Pro (3GPP Rel. 12)	
	 Dual SIM slots, 2FF form factor 	
	 SIM-based auto-carrier selection 	
Fallback:	WCDMA/UMTS/HSPA+	
Carrier Aggregation:	Up to 5CA downlink, 2CA uplink	
	Refer to the Modem Carrier Aggregations article.	
Peak Downlink Rates:	LTE: 1.2 Gbps	
	WCDMA: 42.2 Mbps	
Peak Uplink Rates:	LTE 150 Mbps	
	WCDMA: 5.76 Mbps	
MIMO:	4x4 MIMO	
QAM:	Up to 256	
LTE Bands:	LTE FDD	LTE TDD
	 B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B66, B71 	— B38, B39, B40, B41, B42, B43, B46, B48
5G NR Bands:	Ν/Α	
WCDMA Bands:	B1, B2, B4, B5, B8, B19	
Power:	LTE 23 dBm \pm 1, DC-HSPA+ 23 dBm \pm 1 (typical conducte	ed)
Antennas:	SMA female connectors, external 600 MHz - 6 GHz cellul	ar paddle antennas (Qty 4, included)
GNSS/GPS:	Active GNSS	
	— GPS, GLONASS, BeiDou, Galileo	
	 DC voltage bias supplied (typical 3.1V) 	
SMS:	Yes	
Regulatory:	FCC (U.S.), IC (Canada), CE (EU), RCM (AU/NZ)	
Network Operator Standards:	PTCRB (U.S., Canada), GCF (Worldwide)	
Network Operator Certifications:	AT&T, Verizon, Telstra (Cat 16)†	
Public Safety Network Certifications:	FirstNet Ready™ (including Band 14)	
Private Cellular Network:	Yes, includes FCC Part 96 (CBRS Band 48)	

[†]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, to operate on their network. 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.

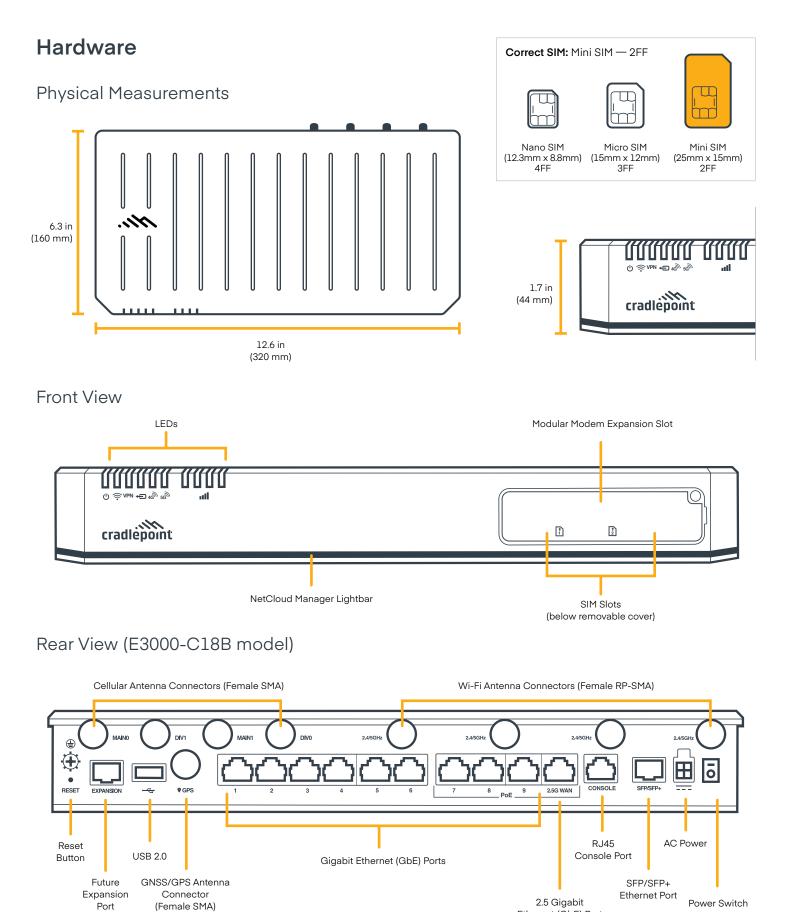


Enterprise-Class Modem Specifications

SPECIFICATION	E3000-5GB		
Technology:	5G NR (Low/Mid-Band FR1) and 4G LTE Category 20 LTE Advanced Pro with Dual Connectivity — Dual SIM slots, 2FF form factor		
Fallback:	WCDMA/UMTS/HSPA+		
Carrier Aggregation:	LTE only; up to 7CA downlink, 2CA uplink ENDC 5G + LTE; downlink and uplink supported Refer to the Modem Carrier Aggregations article.		
Peak Downlink Rates:	Up to 4.14 Gbps — based on 20 Layers LTE + TDD (100 MHz BW, 256 QAM, 4X4)		
Peak Uplink Rates:	Up to 660 Mbps — based on 2 Layers LTE + TDD (100 MHz BW, 256 QAM, SISO)		
MIMO:	4x4 MIMO		
QAM:	Up to 256 — FR1		
LTE Bands:	LTE FDD LTE TDD — B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B66, B71 LTE TDD — B34, B38, B39, B40, B41, B42, B43, B46, B48		
5G NR Bands:	n1, n2, n3, n5, n28, n41, n66, n71, n77, n78, n79		
WCDMA Bands:	B1, B2, B3, B4, B5, B6, B8, B9, B19		
Power:	LTE only; 23 dBm \pm 1 (typical conducted) ENDC 5G + LTE; 20 dBm \pm 1 (typical conducted)		
Antennas:	SMA female connectors, external 600 MHz - 6 GHz cellular paddle antennas (Qty 4, included)		
GNSS/GPS:	Passive GNSS (multiplex with DIV/MIMO2 antenna ports)		
SMS:	Yes		
Regulatory:	FCC (U.S.), IC (Canada), CE (EU), RCM (AU/NZ)		
Network Operator Standards:	PTCRB (U.S., Canada), GCF (Worldwide)		
Network Operator Certifications:	AT&T, Verizon ⁺		
Public Safety Network Certifications:	N/A		
Private Cellular Network:	Yes		

[†]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, to operate on their network. 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.





Ethernet (GbE) Port



Ordering Guide

NetCloud Enterprise Branch Essentials packages and plans contain all the features and capabilities required for small to mid-sized branch applications. Essentials Packages include 24x7 support (phone support: 24 hour weekdays with emergency response on weekends, web: 24x7, chat: 24x5) and a limited lifetime warranty.

For additional capabilities, a **NetCloud Enterprise Branch Advanced Plan** can be added to the NetCloud Enterprise Branch Essentials Package at any time.

See additional details of what is included in the Essential and Advanced NetCloud software: cradlepoint.com/netcloud-service

For more details on the E3000 series router, included with the NetCloud Enterprise Branch Packages, see below.

NetCloud Package & Plans

REGION	DESCRIPTION	PART NUMBER
	CAT 18 Modem	
	NetCloud Enterprise Branch Essentials and Advanced Plans with E3000-C18B	BFAx-3000C18B-GN
	NetCloud Enterprise Branch Essentials Plan with E3000-C18B	BF0x-3000C18B-GN
North America: U.S., Canada & Latin America	NetCloud Enterprise Branch Essentials and Advanced Plans with E3000-C18B	BFAx-3000C18B-MX
	NetCloud Enterprise Branch Essentials Plan with E3000-C18B	BF0x-3000C18B-MX
	5GB Modem	
	NetCloud Enterprise Branch Essentials and Advanced Plans with E3000-5GB	BFAx-30005GB-GN
	NetCloud Enterprise Branch Essentials and Advanced Plans with E3000-5GB	BF0x-30005GB-GN
	CAT 18 Modem	
	NetCloud Enterprise Branch Essentials and Advanced Plans with E3000-C18B	BFAx-3000C18B-GE
Europe:	NetCloud Enterprise Branch Essentials Plan with E3000-C18B	BF0x-3000C18B-GE
European Union (EU)	5GB Modem	
	NetCloud Enterprise Branch Essentials and Advanced Plans with E3000-5GB	BFAx-30005GB-GE
	NetCloud Enterprise Branch Essentials Plan with E3000-5GB	BF0x-30005GB-GE
	CAT 18 Modem	
	NetCloud Enterprise Branch Essentials and Advanced Plans with E3000-C18B	BFAx-3000C18B-GU
Europe:	NetCloud Enterprise Branch Essentials Plan with E3000-C18B	BF0x-3000C18B-GU
United Kingdom (UK)	5GB Modem	
	NetCloud Enterprise Branch Essentials and Advanced Plans with E3000-5GB	BFAx-30005GB-GU
	NetCloud Enterprise Branch Essentials Plan with E3000-5GB	BF0x-30005GB-GU



NetCloud Package & Plans

REGION	DESCRIPTION	PART NUMBER
	CAT 18 Modem	
Asia Pacific: Australia & New Zealand (NZ)	NetCloud Enterprise Branch Essentials and Advanced Plans with E3000-C18B	BFAx-3000C18B-GP
	NetCloud Enterprise Branch Essentials Plan with E3000-C18B	BF0x-3000C18B-GP
	5GB Modem	
	NetCloud Enterprise Branch Essentials and Advanced Plans with E3000-5GB	BFAx-30005GB-GP
	NetCloud Enterprise Branch Essentials Plan with E3000-5GB	BF0x-30005GB-GP
Asia Pacific: Japan (JP)	5GB Modem	
	NetCloud Enterprise Branch Essentials and Advanced Plans with E3000-5GB	BFAx-30005GB-JJ
	NetCloud Enterprise Branch Essentials Plan with E3000-5GB	BF0x-30005GB-JJ
	Renewal NetCloud Enterprise Branch Advanced Plan	BF0x-NCADV
All Regions:	Renewal NetCloud Enterprise Branch Essentials and Advanced Plans	BFAx-NCEA-R
	Renewal NetCloud Enterprise Branch Essentials Plan	BFAx-NCESS-R

x = 1, 3, or 5 years



Accessories

INCLUDED	PART NUMBER
One of the following power supplies:	
 Power Supply, 54V, 3.3A, 2x2 Large, 2 meters (most of World) 	170751-000
 Power Supply, 54V, 3.3A, 2x2 Large, 2 meters (Mexico) 	170751-001
C14 Line Cord (Qty. 1, varies based on the regional NetCloud package ordered)	N/A
Cellular Antenna, Charcoal, 600 MHz - 6 GHz, SMA (Qty 4)	170801-000
Wi-Fi Antenna, Charcoal, Dual-Band 2.4/5 GHz, RPSMA (Qty 4)	170836-000
Antenna Alignment Tool (E3000-C18B models only)	N/A
Wall Mount Screw Pack	N/A
Rack Mount Brackets	N/A
Rubber Feet for Desk Mounting	N/A
OPTIONAL	PART NUMBER
Power Supply C14 Line Cord Options:	
— Line Cord, U.S. (C14), 1.8 meters, North America	170671-001
 Line Cord, EU (C14), 1.8 meters, European Union 	170671-002
 Line Cord, UK (C14), 1.8 meters, United Kingdom 	170671-003
 Line Cord, AU (C14), 1.8 meters, Australia 	170671-004
Enterprise Branch E3000 Cat 18 LTE Advanced Pro Modular Modem Kit [†]	BF-MC400-1200M-B
 MC400-1200M-B Cat 18 LTE Advanced Pro Modular Modem 	MC400-1200M-B
 MC400-1200M-B Cat 18 LTE Advanced Pro Modular Modem E3000 MC400-1200M-B Modem Door with Screw 	MC400-1200M-B N/A
- E3000 MC400-1200M-B Modem Door with Screw	N/A
 E3000 MC400-1200M-B Modem Door with Screw Cellular Antenna, Charcoal, 600 MHz - 6 GHz, SMA (Qty 4) 	N/A 170801-000
 E3000 MC400-1200M-B Modem Door with Screw Cellular Antenna, Charcoal, 600 MHz - 6 GHz, SMA (Qty 4) Enterprise Branch E3000 Cat 6 LTE Advanced Modular Modem Kit[†] 	N/A 170801-000 BF-MC400LP6

⁺ Refer to the Cradlepoint MC400 Modular Modem webpage for more information about modular modems.

Support & Warranty

The E3000 Series router is only sold as a component of NetCloud Branch 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.

Find the most up-to-date information at cradlepoint.com/e3000