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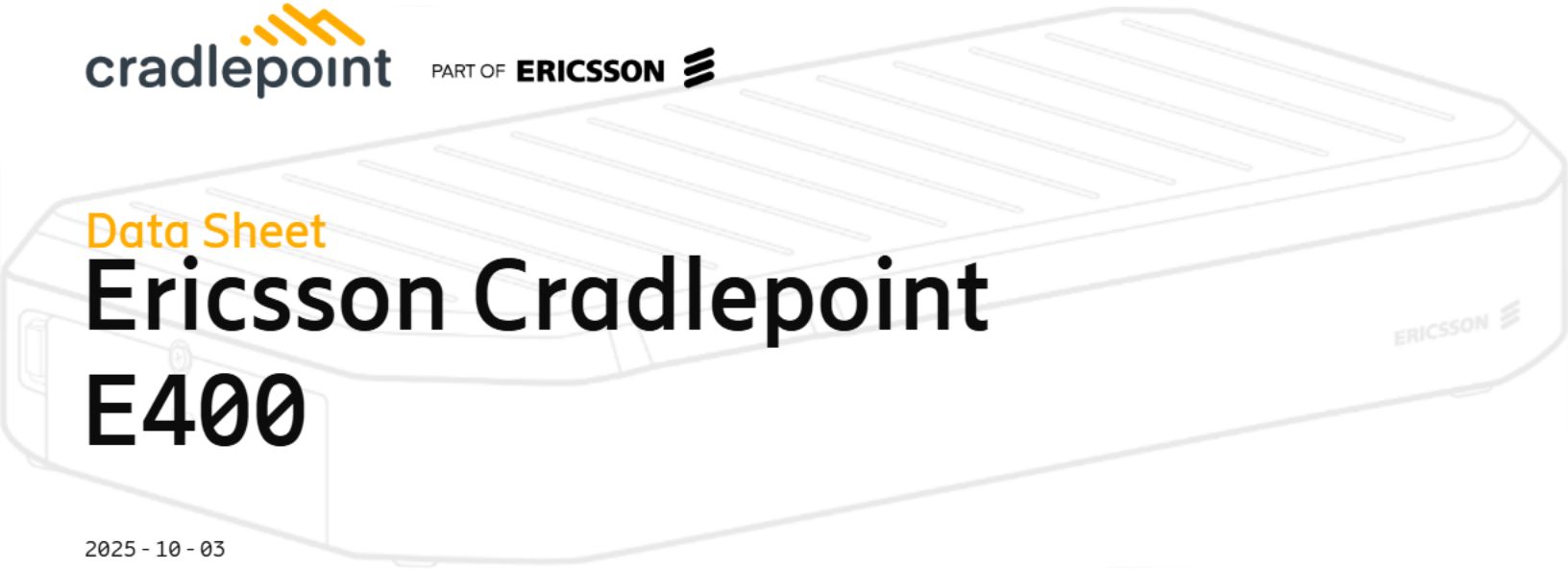
Data Sheet

Ericsson Cradlepoint E400



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The Ericsson Cradlepoint E400 routing and security appliance is designed to connect fixed locations using the latest standards of Stand Alone 5G cellular, Wi-Fi 7, satellite, and wired links. The all-in-one form factor makes it easy to connect offices, branches, store, clinics and pop-up temporary locations to the internet and critical applications without the need for extra hardware or complicated configurations. The embedded 5G or LTE modem means that connectivity is always available from day one without waiting for a wired connection while the dual-SIM ensures continuous uptime for connectivity.

Ideal for Wireless WAN

For organizations moving to a wireless WAN, the E400 offers the ability to pair 5G or LTE with a wired link and use a cellular link as a failover connection, hybrid WAN or a primary connection. For an all-wireless WAN, the E400 offers 5G or LTE performance, which can support the throughput needs of a small- or medium-sized office with the ability to add a second cellular connection to increase available bandwidth and reliability. The cellular modem offers advanced 5G technology to operate with 5G Stand Alone networks, which permit Network Slicing, or the ability to lock into a logical overlay performance-optimized for a specific use case with dedicated bandwidth, and quality of service. The embedded eSIMs provides deployment flexibility, expanded carrier profile options, and allows carrier switching without changing physical SIMs. An Ericsson provided minimal data plan on the eSIM allows for zero touch Provisioning and activation of the E400 in the field without additional connectivity requirements.

SD-WAN, Security Integration, LAN Extension Options, and Private Cellular

Notable Features

- Connect to the internet or applications anywhere with all-wireless 5G SA, NSA or LTE connectivity. Lock into a dedicated 5G SA network slice to use designated bandwidth and quality of experience optimized for specific application traffic.
- Terminate a primary wired broadband link with cellular as failover for highly resilient hybrid connectivity.
- Open temporary locations without compromising security or reliability with an all-in-one design and compact form factor.
- Reduce network attack surface, build encrypted tunnels, and incorporate zero trust principles with Secure Connect. Optimize cellular and wired traffic flows for the best quality of experience (QoE) with SD-WAN.
- Define policies through centralized, cloud-based management for easy deployment at scale.
- Add a second cellular modem for dual cellular connectivity and SD-WAN functionality by using a Captive Modem controller for Ericsson Cradlepoint 5G wideband adapters.

The E400 router offers SD-WAN to make cellular, wired and satellite connections optimized so that critical applications are assigned priority and run as expected even in challenging situations. Ericsson SASE zero trust security enhances the organization's security posture by minimizing the attack surface, limiting the blast radius, and preventing lateral movement. A single policy engine integrates policies for Secure Connect, SD-WAN, and Zero Trust Network Access for a truly unified visibility and management experience, providing simplicity and scalability.

If the LAN and Wi-Fi capacity of the E400 isn't sufficient for the location needs, expand the available ports and Wi-Fi clients with LAN Switches and Wi-Fi Access Points to add more users, more IoT devices and more applications - without adding complexity. This full stack solution, including the SD-WAN and SASE, is easily managed by NetCloud.

Additionally, the E400 router can serve as the user equipment router for private cellular networks that provide reliable local area network connectivity where wireless LAN fails to meet the network needs due to large areas or excessive congestion.

- Activate with zero touch provisioning and seamlessly switch between carriers or configure eSIM profiles remotely, ensuring flexible deployment, cost efficiency, and reliable 5G connectivity anywhere.
- Ensure uninterrupted connectivity during power outages with an integrated 8-hour battery backup, keeping the network up and running when it matters most.

Product Page

NetCloud Service

Quick Start Guide

Key Software Capabilities

Ericsson NetCloud Service for the E400 provides everything needed to unlock the power of 5G and LTE at the network edge and connect users and devices to critical applications and services. The Ericsson NetCloud Service package for the E400 includes router software for optimizing routing, Wi-Fi, LAN switching, VPN, SD-WAN, and zero trust security capabilities. The cloud capabilities include zero touch provisioning, group policy definition, best performing carrier selection, cellular health, 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.

NetCloud SASE

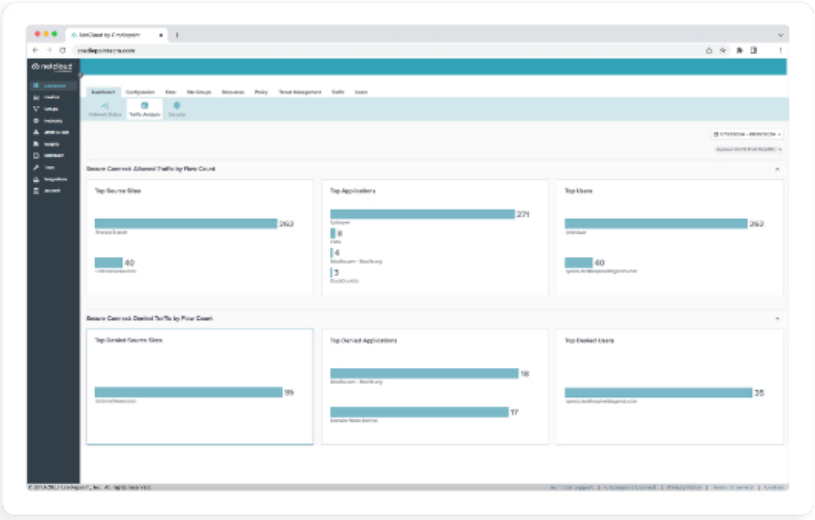
Ericsson NetCloud SASE was built from the ground up to integrate SD-WAN and zero trust networking using a single policy engine, resulting in more efficient and complex operations. NetCloud SASE was designed to work in a variety of WAN environments, so it secures and optimizes even unpredictable networks.

NetCloud SASE SD-WAN and Routing Services

SD-WAN optimizes, prioritizes and steers cellular, wired and satellite WAN to improve application quality of experience. In addition to optimization, SD-WAN offers enhanced WAN resiliency, reduced packet loss and efficiently distributed traffic based on policies. Intelligent bonding provides flow duplication for mission-critical traffic, balanced traffic flows, and aggregated links provide resiliency. Forward error correction adds redundant bits to application flows to prevent retries and packet loss in lossy links.

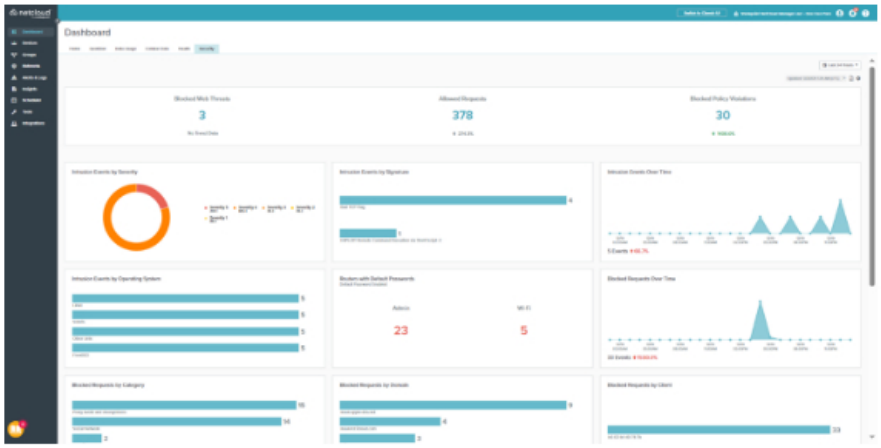
Zero Trust Security Services

Ericsson zero trust security networking, delivered through Secure Connect, protects the network as a VPN replacement through connect-and-go ease. A secure zero trust network can be set up in 6 minutes with Secure Connect to establish dynamic encrypted tunnels and micro-segmented networks that are instantly hidden from internal and external sites. Access policies are easily defined to enable network devices to communicate only with their authorized resources or applications and nothing else. The simple and secure zero trust access, delivered through Zero Trust Network Access (ZTNA), also delivers secure remote access to authorized contractors and third parties for remote monitoring and maintenance. Hybrid mesh firewall delivers a single firewall platform that is available in multiple form factors, whether cloud-based, or on-premises. These firewall options complement Secure Connect and ZTNA with firewall and intrusion detection and prevention (IDS/IPS) to provide a comprehensive security solution.



Cellular Intelligence

Ericsson NetCloud Cellular Intelligence is a collection of software features that allow administrators with distributed wireless WANs to visualize, optimize, and troubleshoot cellular connections, data plans, and traffic flow. These insights give IT teams the necessary tools to manage the unique demands of cellular with more predictable connectivity, deeper insights, and more accurate cost containment.

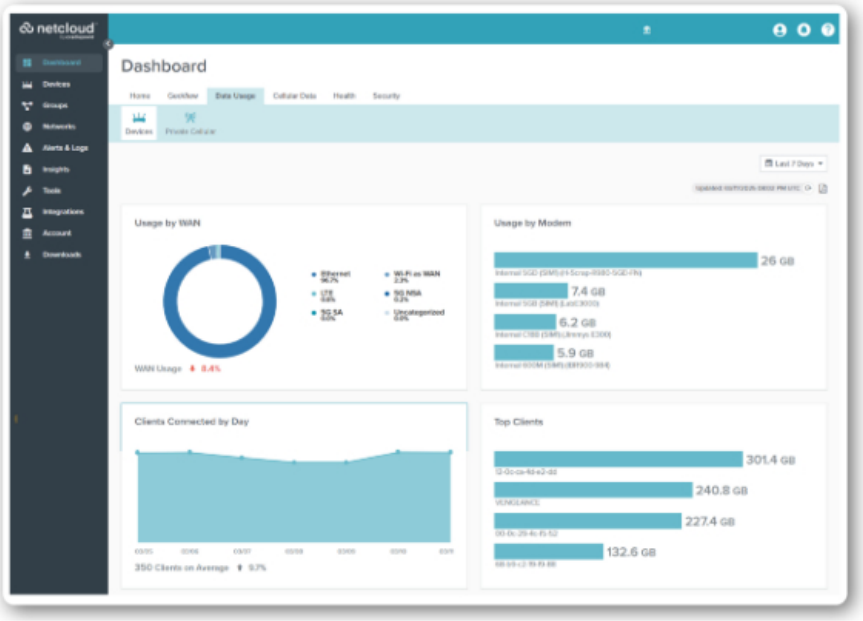


Remote Access and Troubleshooting

Connection Manager provides the ability to manage all WAN connection 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.

Cloud Insights

Use the dashboard for analytics on client, traffic, and modem data usage to gain insights into network status and make necessary adjustments. Configure device and wireless-carrier alerts to notify when important thresholds or limits are reached to know when to make changes



Hardware Specifications

The following features are delivered through the hardware.

INTERFACES

Modem:	Embedded 5G Sub-6 GHz Rel-17 modem supporting LTE Cat 20 — 4 x SMA cellular antenna connectors — 4 x internal cellular antennas
Ethernet:	5 x 2.5 GbE RJ45 (LAN/WAN switchable)
Wi-Fi:	Tri-radio, tri-band, concurrent operation (2.4 GHz, 5 GHz, and 6 GHz) — 2x2 MU-MIMO 802.11be Wi-Fi 7 with DFS — 688 Mbps (2.4 GHz), 2,882 Mbps (5 GHz), and 5,764 Mbps (6 GHz) — 2 x internal dual-band 2.4 GHz/5 GHz Wi-Fi antennas — 2 x internal 6 GHz Wi-Fi antennas — Global Optimized Wi-Fi and International SDR — WPA2/WPA3 Personal, WPA2/WPA3 Enterprise, Open — 802.11k, 802.11v
Expansion:	1 x USB 2.0 Type A (output: 5 V, 500 mA, 2.5 W)
GNSS/GPS:	Passive GNSS — 1 x internal GNSS antenna
ENVIRONMENTAL	
Temperature:	Without battery: — Operating: 0 °C to 45 °C (32 °F to 113 °F) — Storage: -20 °C to 70 °C (-4 °F to 158 °F) With battery: — Operating: 0 °C to 40 °C (32 °F to 104 °F) — Storage: -20 °C to 60 °C (-4 °F to 140 °F)
Humidity:	Without battery: — Operating: 10% to 90% — Storage: 5% to 95% With battery: — Operating: 10% to 80% — Storage: 5% to 60%
POWER	
Required:	External power supply (included) — Input: 100-240 VAC 1 A — Output: 12 VDC 3 A

Consumption:	— Idle: 17 W — Idle charging battery: 23 W — Typical: 19 W — Typical charging battery: 25 W — Heavy: 26 W — Heavy charging battery: 32 W **NOTE**: All power consumption numbers include power adapter losses.
PHYSICAL	
Size:	309 x 141 x 53 mm (12.2 x 5.6 x 2.1 in)
Weight:	Without battery: — .94 kg (2 lb 1 oz) With battery: — 1.28 kg (2 lbs 13 oz)
RELIABILITY	
Calculated MTBF:	E400-5GE-AM — 1,488,995 hours (Telcordia SR332 at 25 °C) E400-5GE-GL — 1,496,892 hours (Telcordia SR332 at 25 °C)
CERTIFICATIONS	
Safety:	— UL/cUL — CB Scheme — EN 62368-1
Environmental Compliance:	— WEEE 2012/19/EU — RoHS 2011/65/EC and its amendments — REACH 1907/2006 and its amendments — TSCA 40 CFR Part 751 and 40 CFR 721 — California Proposition 65 — Canadian Toxic Substance Act SOR/2012-285
Security:	Secureboot
CLOUD SERVICES	
Service Plans:	NetCloud Service for Enterprise Branch
Service Add-Ons:	NetCloud Exchange, NetCloud Advanced
Support:	NetCloud Packages include support for the full subscription term.
Warranty:	All Ericsson 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.
WI-FI POWER	
FCC:	— 2.4 GHz: 32.69 dBm EIRP — 5150–5250 MHz: 34.25 dBm EIRP — 5250–5350 MHz: 29.9 dBm EIRP — 5470–5725 MHz: 29.9 dBm EIRP — 5725–5850 MHz: 34.23 dBm EIRP — 5925-6245 MHz: 29.98 dBm EIRP — 6245-6525 MHz: 29.71 dBm EIRP — 6525-6875 MHz: 29.37 dBm EIRP — 6875-7125 MHz: 27.25 dBm EIRP
IC:	— 2.4 GHz: 32.69 dBm EIRP — 5150–5250 MHz: 22.97 dBm EIRP — 5250–5350 MHz: 22.97 dBm EIRP — 5470–5725 MHz: 29.89 dBm EIRP — 5725–5850 MHz: 34.23 dBm EIRP — 5925-6425 MHz: 29.98 dBm EIRP — 6425-6525 MHz: 29.71 dBm EIRP — 6525-6875 MHz: 29.37 dBm EIRP — 6875-7125 MHz: 27.25 dBm EIRP
CE:	— 2.4 GHz: 19.85 dBm EIRP — 5180-5240 MHz: 22.95 dBm EIRP — 5260-5320 MHz: 22.95 dBm EIRP — 5500-5700 MHz: 29.98 dBm EIRP — 5725-5850 MHz: 22.97 dBm EIRP — 5925-6425 MHz: 22.97 dBm EIRP
PERFORMANCE	
Stateful Firewall:	2.4 Gbps
IPS/Application Aware Services/Client Analytics:	2.4 Gbps
Traffic Analytics:	460 Mbps
Point-to-Point IPsec VPN:	300 Mbps
SASE/Secure Connect/SD-WAN:	270 Mbps
Concurrent VPN Tunnels:	20
Concurrent Sessions (TCP):	130,000
Typical Client Count:	50
Layer 2 / Layer 3 VLANs:	Up to 64
LEDs	
	Refer to the Ericsson Cradlepoint E400 Quick Start Guide.
E400 BATTERY (OPTIONAL)	
Size:	120.5 x 81 x 24.5 mm (4.7 x 3.2 x 1.0 in)

Weight:	0.35 kg (12.2 oz)
Chemistry:	Lithium-ion
Discharge Power:	25 W
Capacity:	56.62 Wh
Estimated Runtime:	Up to 8 hours
Charge Time:	12 hours (95% charged)

Performance testing conducted based on requirements as defined in RFC2544 using fixed-frame 1518-byte packets. Throughput results reflect uni-directional 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	E400-5GE-AM (Americas)
Technology:	5G FR1 NSA/SA and 4G LTE — 3GPP Release 17 — LTE Advanced Pro Category 20 — Dual SIM slots, 4FF form factor — Embedded eSIM — 5G network slicing — 8Rx support
Carrier Aggregation:	LTE Only — Downlink: Up to 6 CA — Uplink: Up to 2 CA LTE + 5G NR ENDC — Downlink: Up to 3 CA (LTE) + Up to 2 CA (5G NR) — Uplink: 1 CA (LTE) + 1 CA (5G NR) 5G NR Only — Downlink: Up to 3 CA — Uplink: Up to 2 CA See Understanding Carrier Aggregation.
Peak Rates:	— Downlink: Up to 4.67 Gbps — Uplink: Up to 1.25 Gbps
MIMO:	4x4 MIMO
Modulation:	5G FR1 — Downlink: Up to 256 QAM — Uplink: Up to 256 QAM

4G/LTE Bands:	FDD — Power Class 3: B2 (1900), B4 (1700), B5 (850), B7 (2600), B12 (700), B13 (700), B14 (700), B17 (700), B25 (1900), B26 (850), B29 (700), B30 (2300), B66 (1700), B71 (600) TDD — Power Class 2: B38 (2600), B41 (2500), B42 (3500), B43 (3700) — Power Class 3: B48 (3500)
5G NR Bands:	NSA and SA — Power Class 1.5: n38 (2600), n41 (2500), n77 (3700), n78 (3500) — Power Class 2: n2 (1900), n5 (850), n7 (2600), n25 (1900), n66 (1700/2100), n71 (600) — Power Class 3: n12 (700), n13 (746-756), n14 (758-768), n26 (850), n29 (717-728), n30 (2300), n48 (3500), n70 (1700/1900)
Power:	LTE — Power Class 2: 26 dBm + 2/-3 (typical conducted) — Power Class 3: 23 dBm ± 2 (typical conducted) 5G NR — Power Class 1.5: 29 dBm + 1/-3 (typical conducted) — Power Class 2: 26 dBm +2/-3 (typical conducted) — Power Class 3: 23 dBm ± 2 (typical conducted)
Antennas:	SMA female connectors, external 600 MHz - 6 GHz cellular paddle antennas (Qty 4, included)
SMS:	Yes
Regulatory:	— FCC (U.S.) — IC (Canada)
Network Operator Standards:	PTCRB (U.S., Canada)
Network Operator Certifications:	— AT&T — T-Mobile — Verizon†
Public Safety Network Certifications:	N/A
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. A carrier listed in the approvals section means Ericsson Enterprise Wireless Solutions 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.

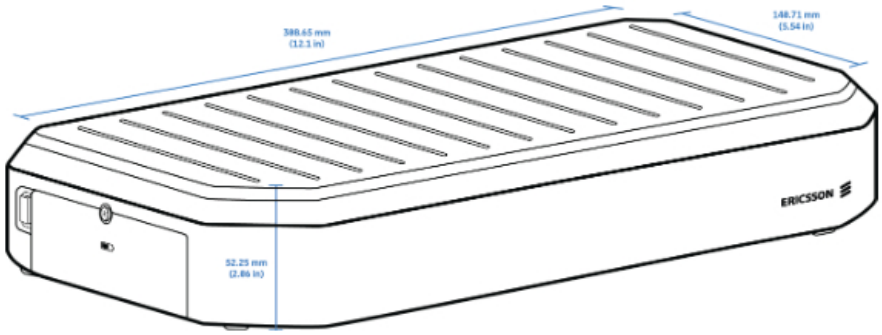
SPECIFICATION	E400-5GE-GL (EMEA, APAC, and parts of LATAM)

Technology:	5G FR1 NSA/SA and 4G LTE — 3GPP Release 17 — LTE Advanced Pro Category 20 — Dual SIM slots, 4FF form factor — Embedded eSIM — 5G network slicing — 8Rx support
3G:	WCDMA/UMTS/HSPA+
Carrier Aggregation:	LTE Only — Downlink: Up to 6 CA — Uplink: Up to 2 CA LTE + 5G NR ENDC — Downlink: Up to 3 CA (LTE) + Up to 2 CA (5G NR) — Uplink: 1 CA (LTE) + 1 CA (5G NR) 5G NR Only — Downlink: Up to 3 CA — Uplink: Up to 2 CA See Understanding Carrier Aggregation.
Peak Rates:	— Downlink: Up to 4.67 Gbps — Uplink: Up to 1.25 Gbps
MIMO:	4x4 MIMO
Modulation:	5G FR1 — Downlink: Up to 256 QAM — Uplink: Up to 256 QAM
4G/LTE Bands:	FDD — Power Class 3: B1 (2100), B3 (1800), B5 (850), B7 (2600), B8 (900), B20 (800), B28 (700), B32 (1500) TDD — Power Class 2: B38 (2600), B41 (2500), B42 (3500), B43 (3700) — Power Class 3: B40 (2300)
5G NR Bands:	NSA and SA — Power Class 1.5: n38 (2600), n41 (2500), n77 (3700), n78 (3500) — Power Class 2: n1 (2100), n3 (1800), n5 (850), n7 (2600), n28 (700), n38 (2600), n40 (2300), n41 (2500), n77 (3700), n78 (3500) — Power Class 3: n8 (900), n20 (800)
3G Bands:	B1, B5, B8

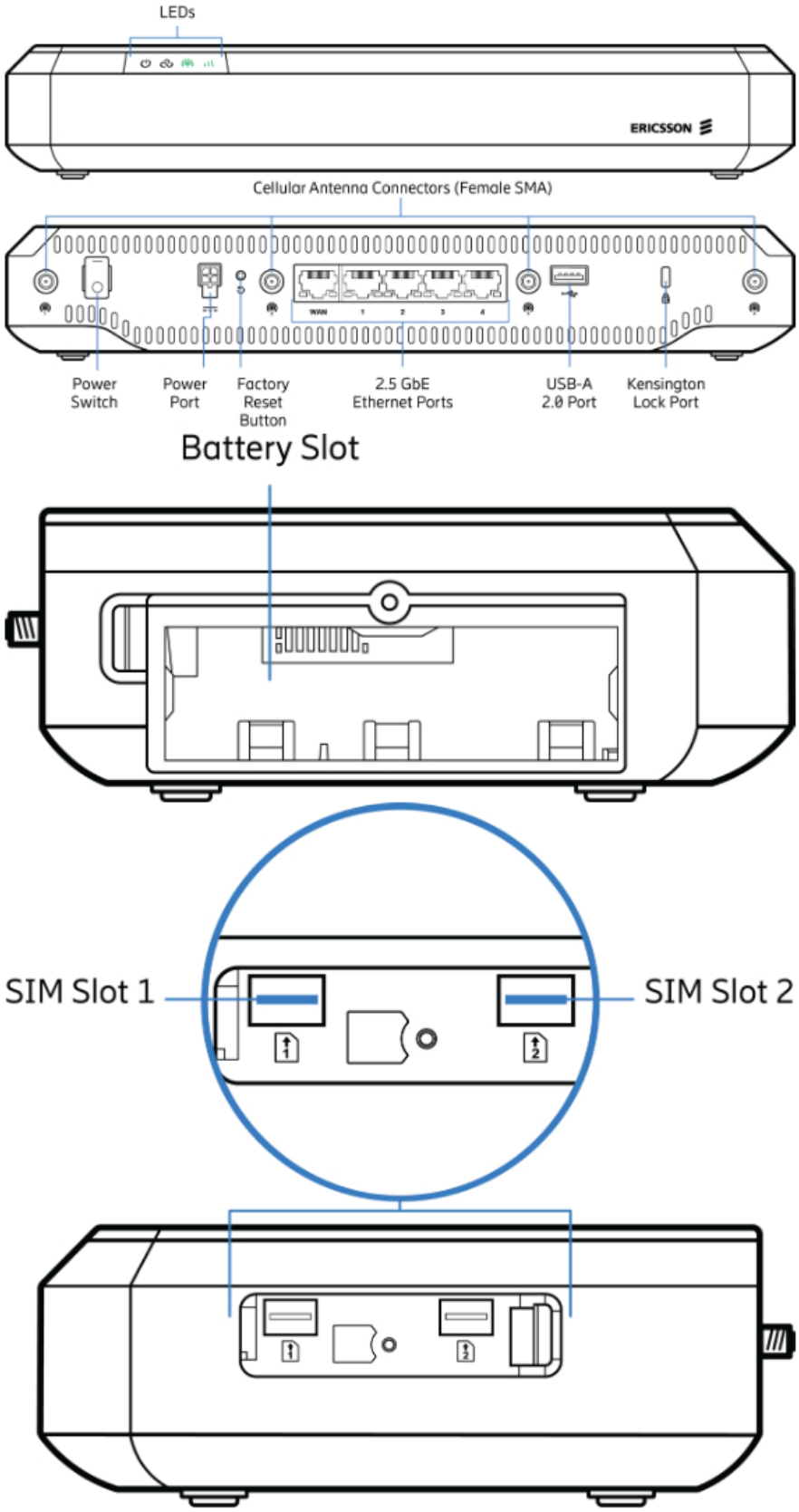
Power:	LTE — Power Class 2: 26 dBm + 2/-3 (typical conducted) — Power Class 3: 23 dBm ± 2 (typical conducted) 5G NR — Power Class 1.5: 29 dBm + 2/-3 (typical conducted) — Power Class 2: 26 dBm +2/-3 (typical conducted) — Power Class 3: 23 dBm ± 2 (typical conducted)
Antennas:	SMA female connectors, external 600 MHz - 6 GHz cellular paddle antennas (Qty 4, included)
SMS:	Yes
Regulatory:	— CE (EU) — RCM (AU/NZ) — UKCA (UK)
Network Operator Standards:	GCF (Worldwide)
Network Operator Certifications:	— AT&T — T-Mobile — Verizon†
Public Safety Network Certifications:	N/A
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. A carrier listed in the approvals section means Ericsson Enterprise Wireless Solutions 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.

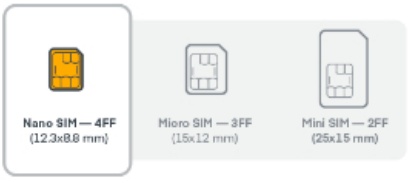
Physical Measurements & Features



Features — E400-5GE



SIM Card Info



Ordering Guide

Ericsson NetCloud Service Small 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, an **Ericsson NetCloud Service Small Branch Advanced plan** can be added to the Ericsson NetCloud Service Enterprise Branch Essentials package at any time.
See additional details of what is included in the Essential and Advanced Ericsson NetCloud software: cradlepoint.com/netcloud-service

Ericsson NetCloud Service Packages for the E400 Router

REGION	MODEM	PACKAGE PLAN	PART NUMBER
North America: U.S. & Canada	5G with Wi-Fi	Enterprise Branch Essentials	BL0x-E400-5GE-AM-N
		Enterprise Branch Essentials + Advanced	BLAx-E400-5GE-AM-N
United States: Federal Government	5G with Wi-Fi	Enterprise Branch Essentials	TAA-BL0x-E400-5GE-AM-N
		Enterprise Branch Essentials + Advanced	TAA-BLAx-E400-5GE-AM-N
Rest of World: **Australia, European Union, New Zealand, and United Kingdom**	5G with Wi-Fi	Enterprise Branch Essentials	BL0x-E400-5GE-GL-M
		Enterprise Branch Essentials + Advanced	BLAx-E400-5GE-GL-M

All Regions:	Renewal Essentials	BL0x-NCESS-R
	Advanced Upgrade	BL0x-NCADV
	Renewal Advanced Upgrade	
	Renewal Essentials + Advanced	BL0x-NCADV-R
		BLAx-NCEA-R

x = 1, 3, or 5 years
y = 3 or 5 years

Accessories

INCLUDED	PART NUMBER
Cellular Antenna, Charcoal, 600 MHz - 6 GHz, SMA, 155 mm (Qty 4)	170923-000
One of the following: — Power Supply, 12 VDC, 2x2, 1.5 meters (North America) — Power Supply, 12 VDC, 2x2, 1.5 meters (International)	 170924-000 170925-000
Ethernet Cable, Cat5e RJ45-to-RJ45, 1.5 meters	170926-000
Door Screws (Qty 2)	N/A
OPTIONAL	**PART NUMBER**
Battery, 25 W, 56.62 Wh	170921-000

Support & Warranty

The Ericsson Cradlepoint E400 router is only sold as a component of Ericsson NetCloud Branch packages.

— Ericsson NetCloud packages include support for the full subscription term.

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

More information

Find the most up-to-date information at cradlepoint.com/e400-series