

Data Sheet

Ericsson Cradlepoint RC1250

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The Ericsson Cradlepoint RC1250 is a ruggedized Captive Modem accessory that is paired with select Ericsson Cradlepoint ruggedized routers. In some deployments, a captive modem accessory must be located optimally to secure the strongest cellular signal, or multiple captive modems build reliable, multi-WAN networks. This accessory can be added to select versions of prior Ericsson Cradlepoint 5G or LTE routers so that they can take advantage of the latest 5G Stand Alone (SA) functionality and extend the installed product's longevity.

Captive Modem mode enables the RC1250 to operate in a separate physical location from its paired Ericsson Cradlepoint router while still being controlled as a single entity within NetCloud which simplifies management and licensing. In this mode, the RC1250 appears in NetCloud as a modem WAN interface, capable of adding additional active or passive WAN connections to the network, enhancing Wireless WAN capacity for load balancing, redundancy, or standby failover.

Leveraging 5G SA connectivity, the RC1250 provides access to advanced capabilities such as network slicing for dedicated service tiers made available through cellular Carriers and eSIM functionality, allowing seamless carrier switching without physically replacing SIM cards. This accessory supports all Wireless WAN features found in NetCloud for routers with an embedded modem, including Smart WAN Selection, WAN Verify, and automatic failover/failback, while the router serves as the controller to streamline deployment, centralized management, and reduce licensing costs.

High-Performance Vehicle Connectivity

For high-performance vehicle connectivity, the RC1250 Captive Modem delivers resilient, low-latency 5G SA links tailored for mobile offices and mission-critical transport applications. Its ruggedized form factor is engineered for in-vehicle use, with tolerance for wide temperature ranges, shock, and vibration, ensuring reliable operation in harsh environments. Dual-SIM dual-standby provides near-instant failover between carriers so in-vehicle systems such as dispatch, video, telemetry, and passenger stay connected without interruption.

When paired with the Ericsson Cradlepoint R2400 ruggedized mobile router, up to five RC1250 captive modems can be connected via plug-and-play 2.5GbE ports, allowing easy future upgrades with new modem releases and delivering greater aggregated bandwidth and carrier diversity. This multi-modem architecture provides more connectivity and carrier options than any Ericsson Cradlepoint router before, giving customers improved uptime, bandwidth aggregation, and route diversity for better operational continuity and user experience.



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Quick Start Guide

Notable Features

- Increase ROI and lifespan of prior mobile router models by upleveling network capabilities with the addition of an RC1250 Captive Modem
- Stay connected like never before with Dual-SIM Dual Standby that offers near instant failover with visibility into the standby network, eliminating blind switchover
- Change carriers over the air quickly and easily with built-in eSIM capability
- 2x2 power input with ignition sensing
- Ruggedization for extreme environments
- Take advantage of 5G network slices to segment and isolate applications or devices, prioritize traffic, and have greater control over wireless network services

Hardware Specifications

The following features are delivered through the hardware.

INTERFACES	
Modem:	Embedded 5G NR FR1 low-, mid-band, and 4G LTE Category 20 modem <ul style="list-style-type: none"> • 4 x SMA cellular antenna connectors[†]
Ethernet:	1 x 2.5 GbE RJ45 (LAN/WAN switchable)
PoE:	N/A
Wi-Fi:	N/A
Bluetooth:	N/A
Expansion / Console:	N/A
GNSS / GPS:	N/A
ENVIRONMENTAL	
Temperature:	<ul style="list-style-type: none"> • Operating: -40 °C to 70 °C (-40 °F to 158 °F) • Storage: -40 °C to 85 °C (-40 °F to 185 °F)
Humidity:	<ul style="list-style-type: none"> • Operating: 5% to 95% • Storage: 5% to 95%
Ingress Protection:	IP64 (dust tight and splashing water)
POWER	

Required:	DC input steady state voltage range: 9–36 VDC (requires in-line fuse for vehicle installations) <ul style="list-style-type: none"> • For 9–24 VDC installations, use a XXX A fuse • For > 24 VDC installations, use a XXX A fuse • Connector type: 4-pin 2x2 Molex micro-fit
Features:	<ul style="list-style-type: none"> • ISO 7637-2 reverse polarity and transient voltage protection • Ignition sensing (automatic ON & time-delay OFF)
PHYSICAL	
Size:	108 x 93 x 31 mm (4.23 x 3.65 x 1.21 in)
Weight:	328 g (11.6 oz)
RELIABILITY	
Calculated MTBF:	2,540,101 hours (Telcordia SR332 at 25 °C)
CERTIFICATIONS	
Safety:	<ul style="list-style-type: none"> • UL/cUL • CB Scheme • EN 62368-1
Vehicle:	<ul style="list-style-type: none"> • E-Mark • SAE J1455
Substance Compliance:	<ul style="list-style-type: none"> • 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
Shock/Vibration/Humidity:	<ul style="list-style-type: none"> • Operational Vibration (MIL STD 810H: Part Two, Method 514.8, Procedure 1) • Functional Shock 40G (MIL STD 810H: Part Two, Method 516.8, Procedure 1) • Crash Hazard Shock 75G (MIL STD 810H: Part Two, Method 516.8, Procedure 5)
North American Fire Safety:	NFPA 130
Flame Smoke Toxicity Test:	BSS 7239
Hazardous Locations:	Class I Div 2
CLOUD SERVICES	
Service Plans:	Ericsson NetCloud Service for Mobile Performance
Service Add-Ons:	NetCloud Exchange, Ericsson NetCloud Advanced
Support:	Ericsson 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 Ericsson 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:	2.0 Gbps
Standard NAT Mode Throughput:	2.0 Gbps
Captive Modem Mode Throughput:	1.3 Gbps
COMPATIBILITY	
Supported Ericsson Cradlepoint Routers:	<ul style="list-style-type: none"> • IBR1700 ruggedized router • R920 ruggedized router • R980 ruggedized secure appliance and router • R1900 5G router • R2400 ruggedized router
LEDs	
Refer to the RC1250 Captive Modem Quick Start Guide .	

†All antenna interfaces require cabled out external antennas and are not compatible with direct-attached antennas.

††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

⌵ Physical Measurements & Features

⌵ Ordering Guide

⌵ Accessories

⌵ Support & Warranty

More Information

Find the most up-to-date information at cradlepoint.com/rc1250