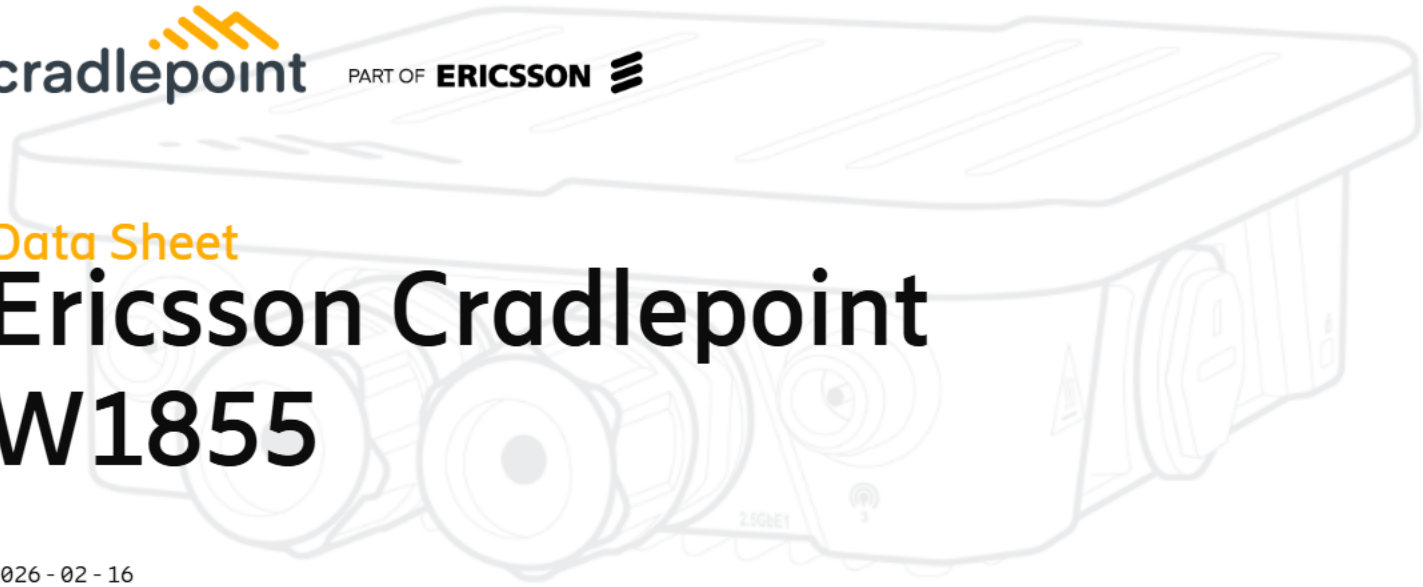
cradlepoint PART OF ERICSSON



Data Sheet

Ericsson Cradlepoint W1855

2026 - 02 - 16

Designed for fixed locations that require the higher performance of 5G and the flexibility of wireless, the outdoor Ericsson Cradlepoint W1855-5GC wideband adapter ushers in the latest generation of wireless WAN networking. The W-series is designed to accommodate the latest spectrums, recent innovations, and breadth of new technologies in 5G while delivering enterprise-class scalability standards, comprehensive management, and security.

High Performance Wideband

The W1855-5GC adapters are purpose-built for outdoor deployment in the high-performance low-, mid-band 5G spectrum. To address the tradeoff of lower propagation in the mid-band spectrum, Ericsson designed the W1855 Series outdoor adapter to be placed separately from the router for optimal signal reception. The stylized W1855-5GC adapter is less than half the size of the previous outdoor 5G adapter which makes installation easier.

Designed for Enterprise-Class Business

While the performance of 5G is top of mind, the W-series was also designed with enterprise-class standards for high scalability, comprehensive management, and security. Representing the latest available 5G standards which are a collection of spectrum, technologies, and network infrastructure enhancements, the Ericsson Enterprise Wireless Solutions 5G edge networking service and endpoints accommodate the diverse deployments of an organization with hundreds or even tens of thousands of sites.

Notable Benefits

- Increase the size and types of your WAN use cases with 5G performance
- Experience the dependability of dual connectivity with simultaneous 5G and 4G connections
- Gain carrier-class connectivity using a software-defined modem and integrated multilevel test and recovery utilities
- Deploy an enterprise-class 5G solution with greater simplicity and confidence with the wizard-based installation application
- Manage an Ericsson Cradlepoint router and 5G adapter as one entity for singular control and visibility with captive modem
- Evaluate the benefits of your 5G service with value confirmation tools built into the Ericsson NetCloud platform
- Deploy within any existing networking or SD-WAN environment

Product Page

Ericsson NetCloud Service

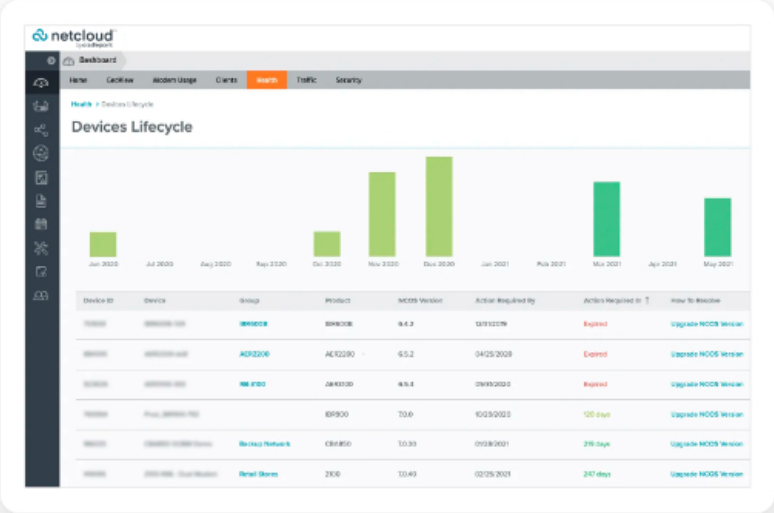
Quick Start Guide

Carrier-Class Connectivity

Although each network operator conforms to 3GPP standards, they implement those standards differently to gain optimal efficiency and performance from their network. Additionally, software from modem manufacturers is designed to serve multiple operators within broad markets. The W-series uses a customized software-defined modem, pre-programmed endpoints, and multilevel integrity testing to predict vulnerable connections and deliver carrier-class connectivity.

5G Spectrum Solutions

The W1855 5GC adapter supports low- and mid-band 5G spectrum ensuring that organizations have access to the 5G layers that are most widely used globally. These layers offer a balance of speed, capacity, coverage, and propagation that works with bandwidth-intensive and latency-sensitive use cases.



Support for a Full Range of Cellular Technologies

Ericsson Enterprise Wireless 5G solutions support all cellular generations, from 4G LTE to Gigabit-Class LTE to 5G — with the ability to gracefully transition tens of thousands of sites between generations as technology becomes available in individual locations.

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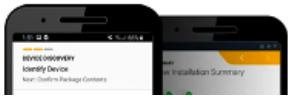
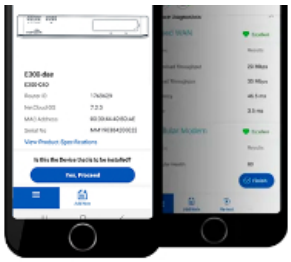
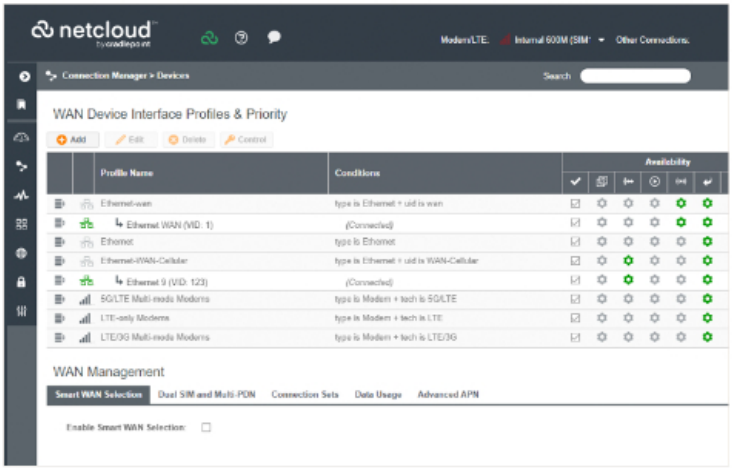




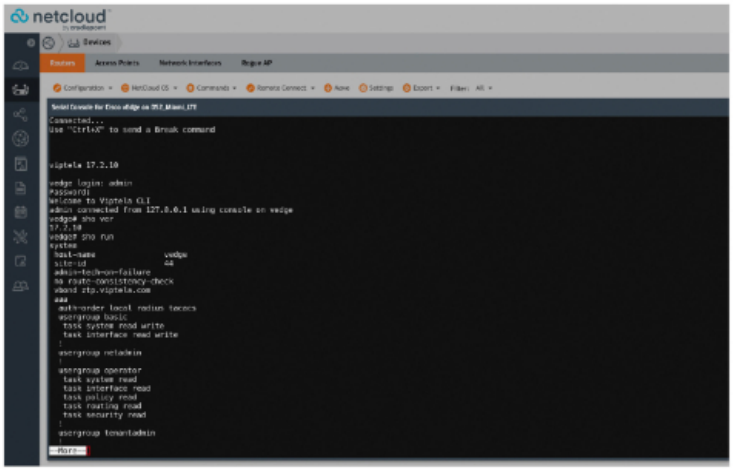
Complete Lifecycle Management

Ericsson Enterprise Wireless 5G solutions help enterprises minimize complexity from installation to troubleshooting with tools and features such as the mobile installation application, the captive modem feature, 5G tools demonstrate 5G service value, and Out-of-Band Management.



Intelligent Hybrid WAN Connectivity

Ericsson Enterprise Wireless 5G solutions deliver effortless wireless endpoint management in a "wired-first SD-WAN" environment and provides all-in-one capabilities (routing, embedded wireless, and foundational SD-WAN) in a "wireless-first SD-WAN" deployment.



Hardware Specifications

The following features are delivered through the hardware.

INTERFACES	
Modem:	Embedded 5G FR1 NSA/SA 3GPP release 16 and 4G LTE Category 19 modem
Ethernet:	2 x 2.5 GbE RJ45 (LAN/WAN switchable)
Bluetooth:	Embedded Bluetooth Low Energy 5.2 (fixed antenna) — Frequency: 2.4 GHz — Gain: 2.9 dBi — Max TX Power: 10 dBM — PHY Connection Rates: 1 Mbps and 2 Mbps
Wi-Fi:	N/A
ENVIRONMENTAL	
Temperature:	— Operating: -30 °C to 70 °C (-22 °F to 158 °F) — Storage: -40 °C to 85 °C (-40 °F to 185 °F)
Humidity:	— Operating: 10% to 90% — Storage: 5% to 95%
Ingress Protection / Corrosion:	— IP67 (dust tight and water emersion up to 1 meter) — IEC60068-2-11 corrosion resistance (salt mist) — IEC60068-2-32 free fall rating
Wind / Lightning:	— 135 MPH sustained wind rating — ITU-T K.21 lightning protection
Electromagnetic Compatibility:	— EN 61000-4-2 level 2 contact discharge, level 3 air discharge — EN 61000-4-3 level 2 — EN 61000-4-4 level 2 — EN 61000-4-5 level 4 — EN 61000-4-6 level 2 — Radiated Emissions/Conducted Emissions Class B
POWER	
Required:	PoE+ — PoE power injector included — 802.3at PSE Type 2 (30 W)

	— Output power: 30 W — Output voltage: 56 VDC — Output current: 0.536 A
Consumption:	802.3at Class 4 PD (30 W)
PHYSICAL	
Size:	204 x 165 x 56 mm (8.03 x 6.5 x 2.2 in)
Weight:	1.3 kg (2 lb 13.8 oz)
RELIABILITY	
Calculated MTBF:	376,671 hours (Telcordia SR332 at 25 °C)
CERTIFICATIONS	
Safety:	— UL/cUL — CB Scheme — EN 60950-22 — EN 62368-1
Substance Compliance:	— WEEE — RoHS — REACH — California Prop 65
CLOUD SERVICES	
Service Plans:	Ericsson NetCloud Service for Branch 5G Adapter
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:	2.0 Gbps
Standard NAT Mode:	2.0 Gbps
Captive Modem Mode:	2.0 Gbps
LEDs	
	See the W1855 Series 5G Wideband Adapter Quick Start Guide.

Performance testing was 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

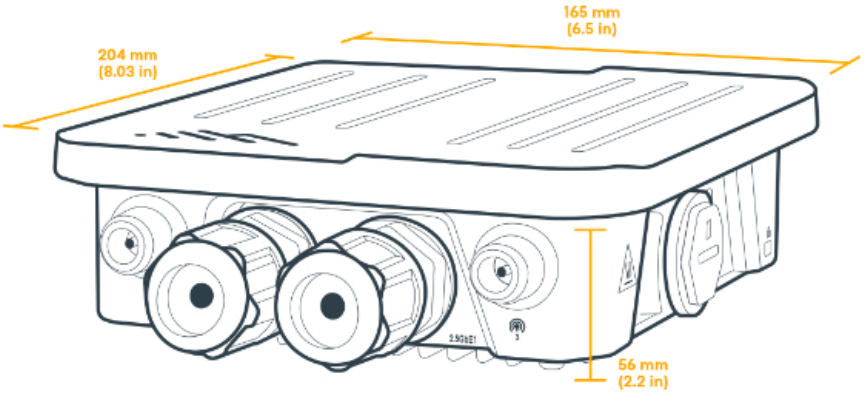
Technology:	5G FR1 NSA/SA — LTE Advanced Pro Category 19 fallback — Dual SIM slots, 4FF form factor — 3GPP Release 16
3G:	WCDMA/HSPA+
Carrier Aggregation:	LTE Only — Downlink: Up to 5CA — Uplink: Up to 2CA LTE + 5G NR ENDC — Downlink: Up to 4CA (LTE) + Up to 1CA (5G NR) — Uplink: Up to 2CA (LTE) + Up to 2CA (5G NR) 5G NR Only — Downlink: Up to 2CA — Uplink: 1CA See Understanding Carrier Aggregation.
Peak Rates:	NSA — Downlink: Up to 3.4 Gbps — Uplink: Up to 550 Mbps SA — Downlink: Up to 2.4 Gbps — Uplink: Up to 450 Mbps LTE — Downlink: Up to 1.6 Gbps — Uplink: Up to 200 Mbps
MIMO:	4x4 MIMO
Modulation:	5GC FR1 — Downlink: Up to 256 QAM — Uplink: Up to 256 QAM
4G/LTE Bands:	FDD — B1 (2100)†, B2 (1900), B3 (1800)†, B4 (1700), B5 (850), B7 (2600)†, B8 (900)†, B12 (700), B13 (700), B14 (700), B17 (700), B18 (850), B19 (850), B20 (800), B25 (1900), B26 (850), B28 (700)†, B29 (700), B30 (2300), B32 (1500), B66 (1700), B71 (600)

	TDD — B34 (2000), B38 (2600)†, B39 (1900), B40 (2300), B41 (2500)†, B42 (3500), B43 (3700), B46 (5200), B48 (3500)
5G NR Bands:	NSA and SA — n1 (2100), n2 (1900), n3 (1800), n5 (850), n7 (2600), n8 (900), n12 (700), n13 (700), n14 (700), n18 (850), n20 (800), n25 (1900), n26 (850), n28 (700), n29 (700), n30 (2300), n38 (2600), n40 (2300), n41 (2500), n48 (3500), n66 (1700/2100), n70 (2000), n71 (600), n75 (1500), n76 (1500), n77 (3700), n78 (3500)†, n79 (4900)†
3G Bands††:	B1, B2, B4, B5, B8, B19
Power:	LTE — LTE bands: 23 dBm ± 2 (typical conducted) — LTE HPUE bands: 26 dBm ± 2 (typical conducted) 5G NR — 5G NR bands: 23 dBm ± 2 (typical conducted) — 5G NR HPUE bands: 26 dBm ± 2 (typical conducted)
Antennas:	N-type female connectors, external 600 MHz - 6 GHz cellular antennas (Qty 4, included)
GNSS:	Passive GNSS — GPS — GLONASS — BeiDou — Galileo
SMS:	Yes
Regulatory:	— FCC (U.S.) — IC (Canada) — UK CA (UK) — RCM (AU/NZ)
Network Operator Standards:	— PTCRB (U.S., Canada) — GCF (Worldwide)
GCF Global Operators:	https://www.globalcertificationforum.org/membership/gcf-members.html†††
PTCRB North America Operators:	https://www.ptcrb.com/about/
Network Operator Certifications:	— AT&T — T-Mobile — Verizon†††
Public Safety	— FirstNet Trusted™

Network	— T-Mobile Connecting Heroes
Certifications:	— Verizon Frontline Verified
Private LTE:	Yes, includes FCC Part 96 (CBRS Band 48)

†Designated bands used in Taiwan.
††3G Bands are not used in Taiwan.
†††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.

Physical Measurements & Features



Features