Data Sheet

Ericsson Cradlepoint W2255

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The Ericsson Cradlepoint W2255 offers a new class of adapter that delivers reliable 5G connectivity and highly resilient failover for a superior Wireless WAN experience. It achieves this through high-performance 5G SA (standalone) with faster failover, network slicing support, and multi-WAN resiliency that can include low Earth orbit (LEO) satellite integration. Designed for enterprise scale, the W2255 supports zero-touch deployment and secure out-of-band management through Ericsson NetCloud.

Flexible Installation and Deployment Options

The W2255 provides flexible deployment in a single model that supports both internal and external installations. Its sleek industrial design complements indoor décor and includes an indoor mounting bracket, while an IP67-rated ruggedized enclosure withstands harsh outdoor conditions and is engineered for easy installation. Use the internal antennas or connect external antennas using the four SMA ports to handle challenging signal environments. This multi-deployment design simplifies inventory and ensures dependable connectivity across diverse use cases.

Enhanced Throughput and Advanced Network Capabilities

Equipped with the latest 3GPP Release 17 modem, the W2255 delivers 20% more capacity for enhanced throughput and improved multi-user performance, compared to the W2255 adapter. It supports network slicing for better WAN resiliency and predictability and Dual-SIM Dual Standby for seamless carrier redundancy, enabling robust, predictable connectivity for demanding enterprise and edge deployments. Dual-SIM/Dual Standby (DSDS) with Dual-SIM/eSIM on a single modem enables up to 10x faster carrier failover, maintains standby visibility to prevent degraded handovers, and reduces cost and complexity by avoiding a second modem or antenna—critical as fixed-site networks fluctuate.

Multi-WAN: 5G Cellular, and LEO Satellite Integration with Ericsson NetCloud

Integrating LEO satellite telemetry into Ericsson NetCloud reduces operational costs and provides centralized visibility and basic control of satellite links. Automatic LEO detection upon satellite provider connection enables automated failover and policy orchestration. NetCloud dashboards display telemetry, simplify bulk configuration, and enforce enterprise-grade SLAs, extending resilient, intelligent Wireless WAN operations beyond terrestrial limits for predictable connectivity in the most challenging environments.

5G SA Multi-Slice with URSP — Prioritized, Predictable WAN Performance

5G SA multi-slice capable with URSP, the W2255 enables predictable, prioritized and resilient WAN performance—isolating critical traffic (for example, PoS) from best-effort guest Wi-Fi and supporting carrier-backed SLAs for critical services. Traffic steering maps applications to optimal spectrum (high bandwidth for video/CCTV, low band for PoS/M2M), improving spectrum efficiency, while standards-based URSP simplifies slice provisioning and optimizes performance.

Product Page

Ericsson NetCloud Service

Installation Guide

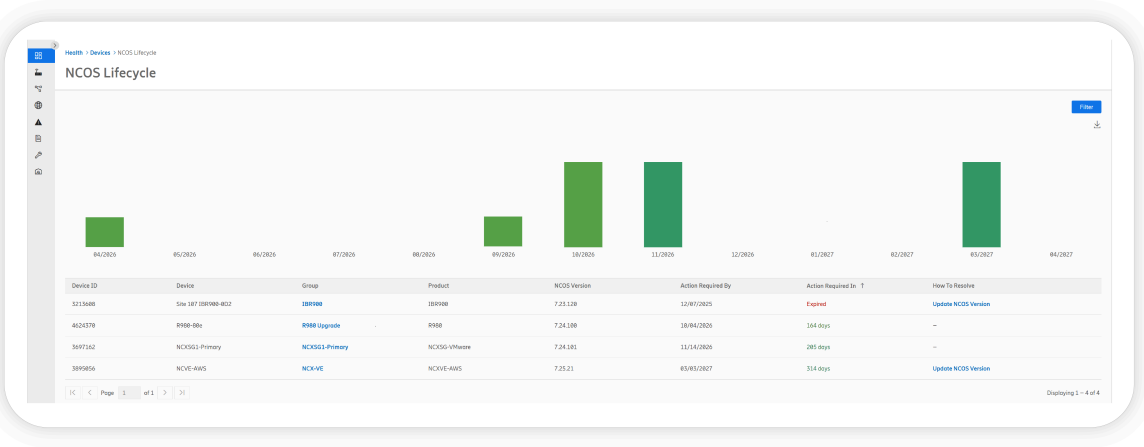
Notable Features

- Increase the size and types of your WAN use cases with 20% more capacity and 10x faster failover performance with Dual SIM/Dual Standby, compared to the W1855 adapter
- Experience the dependability of multi-WAN 5G SA and LEO satellite integrated 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 installation applications including Carrier Selection Intelligence and Zero Touch provisioning
- Connect faster than wired links and deploy and manage carrier profiles easily with embedded eSIM
- Securely investigate downed primary links with out-of-band management capabilities
- Manage an Ericsson Cradlepoint router and 5G adapter as one entity for singular control and visibility with captive modem
- Deploy within any existing networking or SD-WAN environment

5G SA Support Offers Future-Proof Solutions

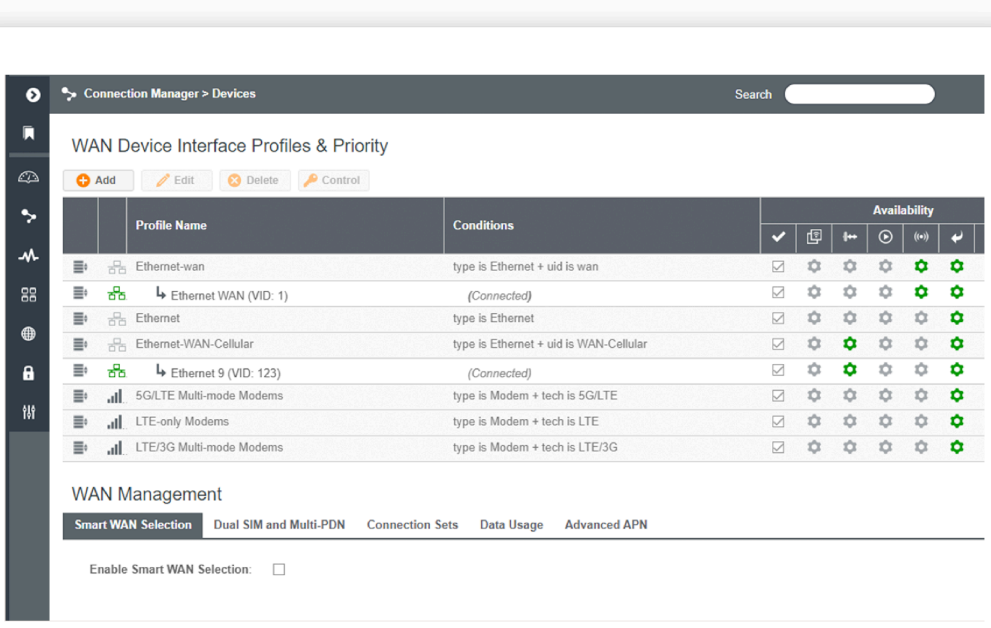
The W2255 5GF adapter supports 3GPP Release 17 low- and mid-band 5G spectrum ensuring that organizations have access to the 5G SA technologies. These layers offer a balance of speed, capacity, coverage, and propagation that works with bandwidth-intensive and latency-sensitive use cases. Additionally, this release enhances network slicing, offered by carriers, who can provide multiple virtual networks or slices with their own latency, bandwidth, and security. This release also provides additional throughput and scheduling enhancements for uplink traffic and optimization features to support AI traffic.

Centralized management with automated or scheduled over-the-air updates and proactive monitoring/alerts are possible in NetCloud, enabling scalable deployment and a consistent security posture. NetCloud is also available in a mobile app as well as the installer application, Verify, that does not require a NetCloud license to install and verify the installation success.



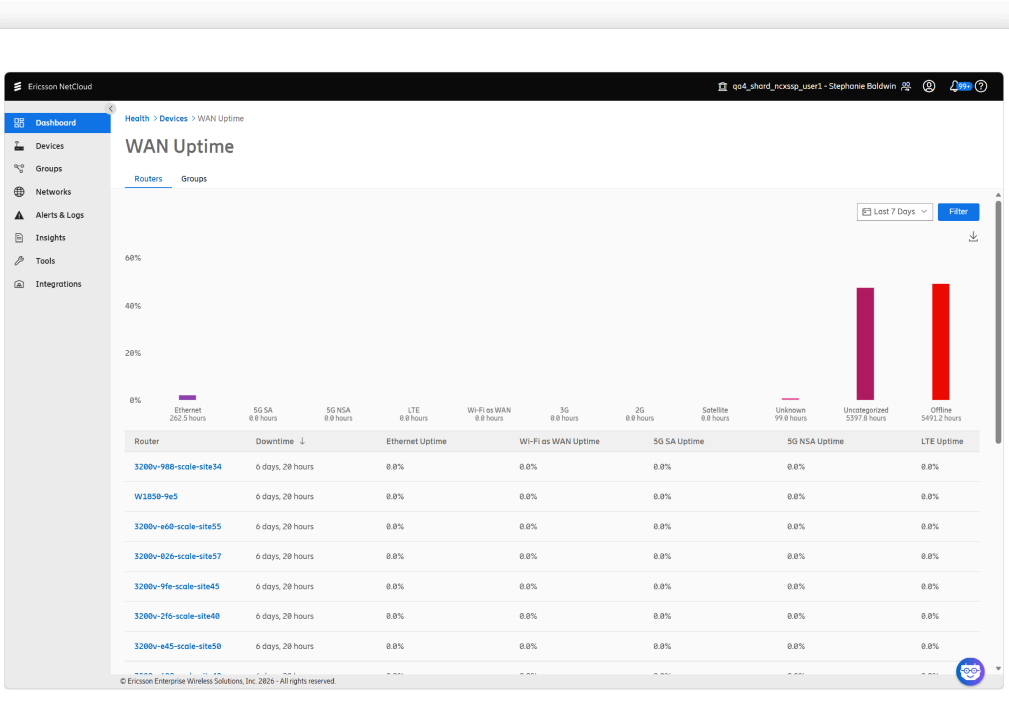
Complete Lifecycle Management

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 that demonstrate 5G service value, and Out-of-Band Management.



Intelligent Hybrid WAN Connectivity

NetCloud offers simplified operations at scale for previously un-seeable wireless WAN and LEO networks with greater network resiliency. Ericsson intelligently orchestrates connectivity through a multi-WAN strategy that blends wired, cellular, and non-terrestrial LEO links with deep telemetry, automation, and AIOps.



Hardware Specifications

The following features are delivered through the hardware.

INTERFACES	
Modem:	Embedded 5G Sub-6 GHz Rel-17 modem supporting LTE Cat 20 Customer configurable for one of the following: • 4 x internal cellular antennas • 4 x SMA cellular antenna connectors†
Ethernet:	2 x 2.5 GbE RJ45 (LAN/WAN switchable)
PoE Source (PSE):	N/A
Wi-Fi:	N/A
Bluetooth:	N/A
Expansion / Console:	1 x USB 2.0 Type C (Output: 5 V, 500 mA, 2.5 W)
GNSS / GPS:	Passive GNSS Customer configurable for one of the following: • Multiplexed with internal cellular antenna • Multiplexed with SMA cellular antenna connector
GNSS / GPS	
Constellations:	• GPS L1/L5 • Galileo E1/E5 • Beidou B1 • GLONASS G1 • SBAS L1 • QZSS L1
Frequencies:	• L1 • L5
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: 0% to 100% • Storage: 5% to 95%
Ingress Protection / Corrosion:	• IP67 (dust tight and water emersion up to 1 meter) • 96-hour IEC60068-2-11 corrosion resistance (salt mist)
Wind / Lightning:	• 130 MPH sustained wind rating • ITU-T K.21 lightning protection
POWER	

Required:	One of the following:
	• AC power adapter (included)
	  • Input: 100-240 VAC 0.7 A
	  • Output: 12 VDC 2 A
	• PoE
	  • IEEE 802.3af PSE (15.4 W)

Consumption:	• Idle: 2 W • Typical: 2.6 W • Heavy: 7.5 W • Maximum: 12 W
PHYSICAL	
Size:	200 x 212 x 60 mm (7.8 x 8.4 x 2.4 in)
Weight:	1.32 kg (2 lb 14 oz)
RELIABILITY	
Calculated MTBF:	448,311 hours (Telcordia SR332 at 25 °C)
CERTIFICATIONS	
Safety:	• UL/cUL • CB Scheme • IEC 60950-22 • EN 62368-1
Substance Compliance:	• RoHS 2011/65/EC and its amendments • REACH 1907/2006 and its amendments • California Proposition 65 • EU POPS 2019/1021 • TSCA 40 CFR Part 751 and 40 CFR 721 • Canadian Prohibition of Certain Toxic Substances Regulations, 2025 (SOR/2025-270)
CLOUD SERVICES	
Service Plans:	Ericsson NetCloud Service for Branch 5G Adapter
Service Add-Ons:	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:	2.4 Gbps
Standard NAT Mode:	2.4 Gbps
Captive Modem Mode:	2.4 Gbps
LEDs	
	Refer to the W2255 5G Adapter Quick Start Guide.

†Should external antennas be required to support a given installation location, SMA cellular antenna connectors 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

☑ W2255-5GF-NA ☐ W2255-5GF-GL

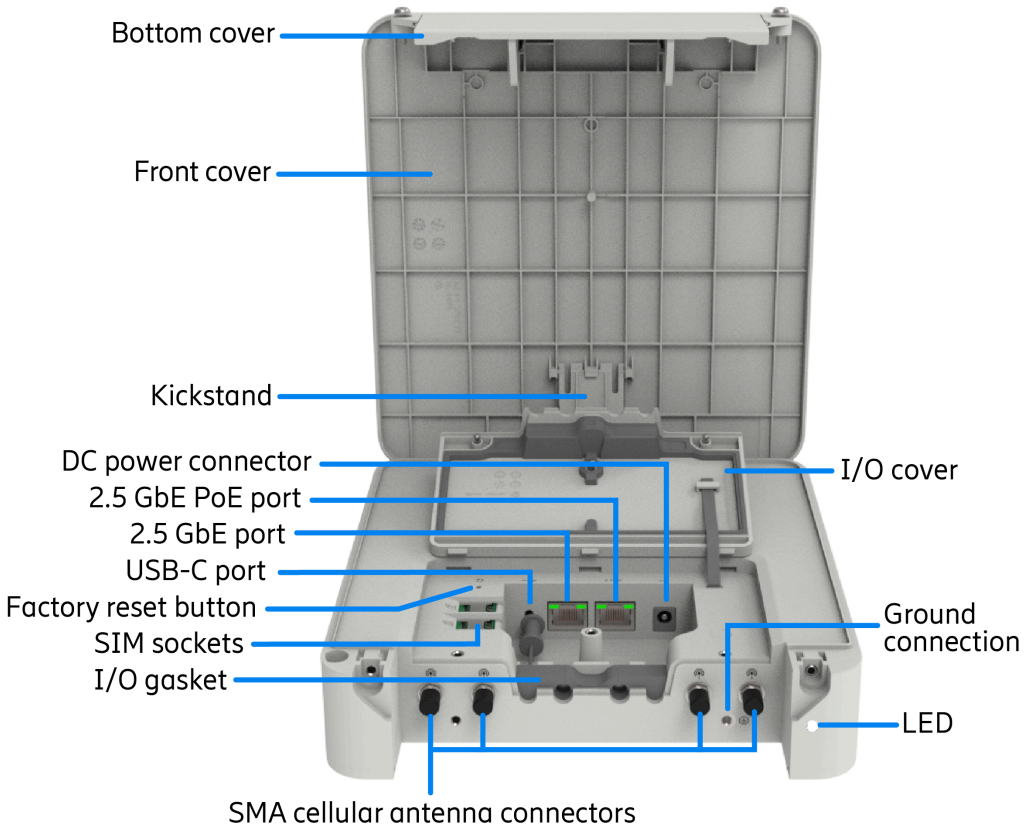
SPECIFICATION	W2255-5GF-NA (North America)
Technology:	5G FR1 SA/NSA and 4G LTE • 3GPP Release 17 • LTE Advanced Pro Category 20 • 5G network slicing • Dual SIM slots, 4FF form factor • Dual embedded eSIM
3G:	N/A
Carrier Aggregation:	5G SA • Downlink: Up to 3 CA (Max 200 MHz bandwidth) • Uplink: 2 CA 5G NSA • Downlink: Up to 2 CA (5G NR) + Up to 5 CA (LTE) • Uplink: 1 CA (5G NR) + 1 CA (LTE) LTE • Downlink: Up to 6 CA • Uplink: Up to 2 CA See Understanding Carrier Aggregation.
Peak Rates:	• Downlink: Up to 4.9 Gbps • Uplink: Up to 900 Mbps
MIMO:	• Downlink: 4x4 MIMO • Uplink: 2x2 MIMO
Modulation:	5G FR1 • Downlink: Up to 256 QAM • Uplink: Up to 256 QAM
5G NR Bands:	• Power Class 1.5: n41 (2500), n77 (3700), n78 (3500) • Power Class 2: n2 (1900), n25 (1900), n41 (2500), n66 (1700/2100), n71 (600), n77 (3700), n78 (3500) • Power Class 3: n2 (1900), n5 (850), n7 (2600), n12 (700), n13 (700), n14 (700), n25 (1900), n26 (850), n29 DL (700), n30 (2300), n38 (2600), n41 (2500), n48 (3500), n66 (1700/2100), n70 (2000), n71 (600), n77 (3700), n78 (3500)
4G/LTE Bands:	• Power Class 2: B38 (2600), B41 (2500), B42 (3500), B43 (3700) • Power Class 3: B2 (1900), B4 (1700), B5 (850), B7 (2600), B12 (700), B13 (700), B14 (700), B17 (700), B25 (1900), B26 (850), B29 DL (700), B30 (2300), B38 (2600), B41 (2500), B42 (3500), B43 (3700), B48 (3500), B66 (1700), B71 (600)

3G Bands:	N/A
Power:	5G NR • Power Class 1.5: 29 dBm • Power Class 2: 26 dBm • Power Class 3: 23 dBm LTE • Power Class 2: 26 dBm • Power Class 3: 23 dBm Transmit power may be lower on select bands due to regulatory restrictions. Tolerances according to 3GPP TS 38.521-1 and 3GPP TS 36.521-1
GNSS/GPS:	Passive
SMS:	Yes
Regulatory:	• FCC (U.S.) • IC (Canada)
Network Operator Standards:	PTCRB (U.S., Canada)
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 Network Certifications:	TBD
Private Cellular Network:	Yes, includes FCC Part 96 (CBRS Band 48)

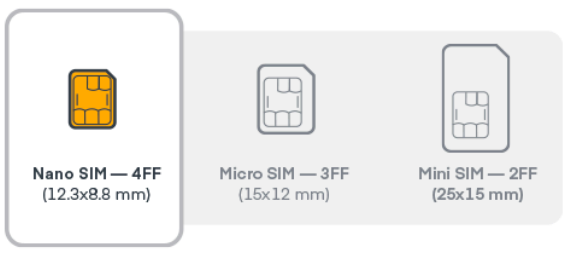
†Cellular carriers and operators throughout the world may only require telecom industry certifications, like PTCRB or GCF, to operate on their network. Some carriers require additional testing and approval, beyond telecom certifications, to operate on their network. A listed carrier means Ericsson Enterprise 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



SIM Card Info



Ordering Guide

Ericsson NetCloud Branch 5G Adapter Essentials + Advanced packages and plans are full featured for 5G performance and connectivity. Essentials + 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 + Advanced NetCloud software: cradlepoint.com/netcloud-service

Ericsson NetCloud Enterprise Branch Packages for the W2255

REGION	PACKAGE PLAN	PART NUMBER
North America: U.S. and Canada	Essentials	BE0x-W2255-5GF-NA-N
	Essentials + Advanced	BEAx-W2255-5GF-NA-N
Rest of World: Australia, European Union, New Zealand, and United Kingdom	Essentials	BE0x-W2255-5GF-GL-M
	Essentials + Advanced	BEAx-W2255-5GF-GL-M
All Regions:	Advanced	BE0x-NCADV
	Renewal Essentials	BE0x-NCESS-R
	Renewal Advanced	BE0x-NCADV-R
	Renewal Essentials + Advanced	BEAx-NCEA-R

x = 1, 3, or 5 years

Accessories

INCLUDED	PART NUMBER
One of the following: • Power Supply, 12 VDC, 24 W, Barrel, 1.5 meters, North America • Power Supply, 12 VDC, 24 W, Barrel, 1.5 meters, International	 170939-000 170940-000
Indoor Wall/Ceiling Mounting Bracket	170943-000
Small Accessories Kit • Wall mount screws (Qty 4) • Wall anchors (Qty 4)	170944-000
I/O Gasket, 4.5-5.5 mm Cable Diameter	170945-000
I/O Gasket, 5.5-6.5 mm Cable Diameter	170946-000
OPTIONAL	
One of the following: • PoE Injector, 15.4 W, 802.3af with 1.8 meters, NA Type B line cord • PoE Injector, 15.4 W, 802.3af with 1.8 meters, EU Type F line cord • PoE Injector, 15.4 W, 802.3af with 1.8 meters, UK Type G line cord • PoE Injector, 15.4 W, 802.3af with 1.8 meters, AU Type I line cord	 170732-001 170732-002 170732-003 170732-004
5G Captive Modem Accessory, Indoor/Outdoor, W2255-5GF-NA (Sixth 5G Modem)	170900-025
5G Captive Modem Accessory, Indoor/Outdoor, W2255-5GF-GL (Sixth 5G Modem)	170900-026
Outdoor Wall/Pole Mounting Kit	170941-000

Support & Warranty

The Ericsson Cradlepoint W2255 adapter is only sold as a component of Branch 5G Adapter Essentials + Advanced 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/w2255