



Data Sheet

R1900 Series 5G Ruggedized Router

2023 - 07 - 31

Cradlepoint's NetCloud Mobile Performance Service with the R1900 Series Router is a ruggedized 5G networking platform, designed to provide persistent connectivity for invehicle deployments. Cradlepoint NetCloud provides connectivity, network, security, location, and IoT services to connect everything in the vehicle, while providing access to IT for remote management, troubleshooting, and analytics.

Ideal for High-Performance In-Vehicle Connectivity

For organizations that depend on field forces and mobile networks, the Cradlepoint R1900 Series Router with the NetCloud Mobile Performance Service plan provides a ruggedized GNSS/GPS-enabled in-vehicle network solution. When coupled with the Advanced Mobile Performance Service plan, it provides threat management, web filtering, application visibility, analytics, and advanced GNSS/GPS functionality including location tracking and cellular coverage maps. The R1900 accommodates environmentally harsh environments while delivering enterprise-class standards of reliability, scalability, comprehensive management, and security.

5G Embedded High-Performance Solution

The R1900 mobile router includes an embedded 5G modem that can automatically connect to Cat 20 LTE if the vehicle moves outside of 5G coverage. In addition, the R1900 Series Router is designed to accept the RX30 managed accessories which provide either four additional GbE PoE ports or four additional GbE ports and a second modular modem. It also has the ability to act as a controller for a separate Cradlepoint 5G Wideband Adapter. These two capabilities, along with the continually improved NetCloud platform, ensure the ability for future expansion and the best investment protection available.







Notable Benefits

- Deploy the ultimate 5G NR / Cat 20 LTE mobile networking solution with industry-leading features
- Add a second cellular modem with the optional RX30 managed accessory for simultaneous dual-carrier connectivity
- Take advantage of Wi-Fi 6 for the best possible connections
- Enable unified edge security with application aware multi-zone firewalls, IDS/IPS, and internet security
- Define policies through centralized cloud-based management for easy deployment at scale
- Integrate into Automatic Vehicle Location systems with discrete GNSS and dead reckoning
- Create a cellular coverage map for complete visibility into your area's 5G and LTE coverage
- Extend your deployment with additional PoE ports, GPIOs, NetCloud SDK and API, Bluetooth, and container support for customizable solutions

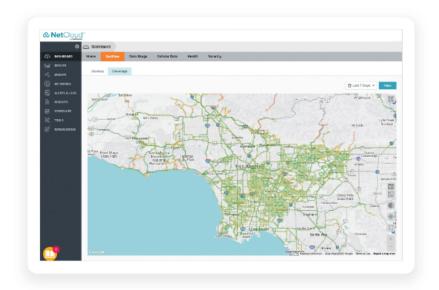


Key Software Capabilities

Cradlepoint NetCloud Mobile Performance Service with the R1900 mobile router provides everything needed to unlock the power of 5G and connect vehicles, users, and IoT to critical applications and services. NetCloud includes router software for optimizing routing, VPN, SD-WAN, and security capabilities along with capabilities centralized in the cloud such as group policy definition, reports, troubleshooting, and analytics dashboards as well as cellular coverage maps. The service comes with a warranty for as long as there is an active subscription on the router, online training, live and online support, and continuous software updates for both the router and the modem.

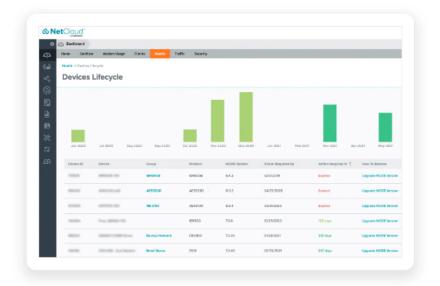
Coverage Map

NetCloud uses GNSS/GPS and 5G/4G cellular health to provide precise analytics about location and signal strength. Data can be mapped to display both the current and historical locations of a vehicle, as well as generate detailed coverage maps that display cellular health, allowing users to gain operational insights and solve problems.



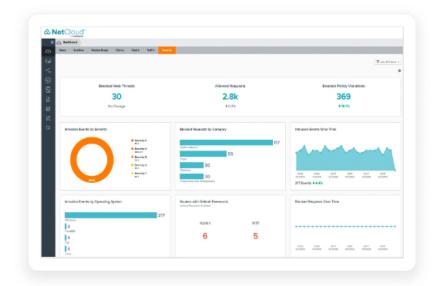
Advanced Software Lifecycle Management

NetCloud improves the typical software lifecycle management process. New features are continuously delivered to NetCloud and become available for the router without interrupting network performance. Software versions are tracked for every endpoint, with the latest update just a click away. Straightforward subscription and license management is easily accessible and provided to keep the network running without interruption.



Security Services

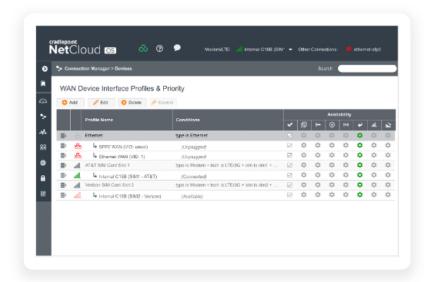
NetCloud Advanced Service includes security features that include application aware zone-based firewall, CP Secure Threat Management (IPS/IDS), and CP Secure Web Filter for protecting your network and meeting the evolving security needs of in-vehicle environments.



Connection Manager

Connection Manager provides the ability to manage all WAN connection types, including wireless, Wi-Fi-as-WAN, and wired, from a single software-defined policy. Our proprietary modem software enables users to quickly establish robust Wireless WAN connectivity while maintaining the highest level of resiliency.





Hardware Specifications

The following features are delivered through the hardware.

INTERFACES	
Modem:	Embedded 5GB NR FR1 low-, mid-band, and 4G LTE Category 20 modem
	 4 x SMA cellular antenna connectors[†]
Ethernet:	4 x GbE (LAN/WAN switchable)
PoE:	Optional RX30 Managed Accessory PoE Switch
	 4 x PoE 802.3bt Type 3 (up to 60 W per port)
	 60 W total PoE power budget
Wi-Fi:	Dual-radio, dual-band, concurrent operation (2.4 GHz and 5 GHz)
	 2x2 MU-MIMO 802.11ax Wi-Fi 6 with DFS
	 574 Mbps (2.4 GHz) & 1,200 Mbps (5 GHz)
	 2 x RP-SMA Wi-Fi antenna connectors†
	 Global Optimized Wi-Fi & International SDR
	 WPA/WPA2/WPA3 Personal, WPA2/WPA3 Enterprise, Open
	- 802.11k, 802.11v
	 Wi-Fi Alliance Certified
Bluetooth:	Embedded Bluetooth Low Energy 5.2
	— Max TX Power: 10 dBM
	 1 x RP-SMA Bluetooth antenna connector[†]



Expansion / Console: 1 x USB 2.0 Type A (Output: 5 V, 500 mA, 2.5 W) 1 x DB9 RS-232 1 x 8-pin GPIO connector - 2x4 Molex micro-fit (3 mm locking type) Optional Managed Accessories - RX30-POE 4-port GbE POE switch - RX30-MC modular modern slot & 4-port GbE switch GNSS / GPS: 1 x SMA GNSS antenna connectorf GNSS / GPS Acquisition: (Time to First Fix) Protocols: - NMEA 0183 - TAIP Constellations:
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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%
Humidity: — Operating: 10% to 90% — Storage: 5% to 95%
Ingress Protection: IP64 (dust tight and splashing water)
PHYSICAL
Size: 172 x 148 x 41 mm (6.77 x 5.82 x 1.61 in)
Weight: 0.98 kg (2.15 lb)
CERTIFICATIONS



Safety:	— UL/cUL
•	- CB Scheme
	— EN 60950-1
	— EN 62368-1
Vehicle:	- E-Mark
	— SAE J1455
Rail:	— EN 45545-2:2020 HL3
	 EN 50121-3-2 (Power Surge 0.5 & 1 kV Criteria A; 1.5 kV Criteria C)
	— EN 50155 Class S1
Materials:	— WEEE
	— RoHS
	- REACH
	— California Prop 65
Security:	FIPS 140-3 Level 1 Implementation Under Test (R1900 FIPS models only)
Shock/Vibration/Humidity:	MIL STD 810G
North American Fire Safety:	NFPA 130
Flame Smoke Toxicity Test:	BSS 7239
POWER	
Required:	DC input steady state voltage range: 9–36 VDC (requires in-line fuse for vehicle installations)
	 For 9–24 VDC installations, use a 3 A fuse
	 For > 24 VDC installations, use a 2.5 A fuse
	 Connector type: 4-pin 2x2 Molex micro-fit
	For light rail applications: 24 VDC nominal
Features:	ISO 7637-2 reverse polarity and transient voltage protection
i catalos.	Ignition sensing (automatic ON & time-delay OFF)
	ighten contains (automatic on a time dolay on)
Consumption:	- Sleep: 15 mW
	- Idle: 11 W
	Typical: 19 W
	— Heavy: 22 W
EDGE COMPUTING	
CPU:	Quad-core ARMv8 64-bit
Memory:	Up to 1.8 GB
-	See Adjusting Memory Resources for NetCloud Container Orchestrator for more information.
	ace Adjusting Floriday Resources for Netcoloud Container Cremostrator for more information.
Flash Storage:	Up to 6 GB



Applications:	Docker containerized applications
CLOUD SERVICES	
Service Plans:	NetCloud Service for Mobile Performance
Service Add-Ons:	NetCloud Exchange, NetCloud Advanced
Support:	NetCloud Packages include support for the full subscription term.
Warranty:	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.
Device Management:	NetCloud Manager for the full subscription term.
Software Updates:	NetCloud Manager for the full subscription term.
RELIABILITY	
Calculated MTBF:	340,644 hours (Telcordia SR332 at 25 °C)
WI-FI POWER	
FCC:	2.4 GHz: 23 dBm Conducted
100.	- 5260-5825 MHz: 21.90 dBm Conducted
	0200 002011112. 21.70 dBitt 0011dd000d
E.U.:	- 2.4 GHz: 14.00 dBm Conducted
	- 5500-5700 MHz; 18.00 dBm Conducted
Canada:	— 2.4 GHz: 23.00 dBm Conducted
	- 5500-5580 MHz: 22.00 dBm Conducted
	— 5660-5825 MHz: 21.89 dBm Conducted
Japan:	- 2.4 GHz: 16.92 dBm Conducted
•	- 5500-5720 MHz: 21.00 dBm Conducted
Global Safe Mode:	2.4 GHz: 14 dBm Conducted
PERFORMANCE	2.7 d 12.1 1 d bin d o nddodd
Stateful Firewall Throughput:	940 Mbps
IPS Throughput:	940 Mbps
Application Aware Services &	940 Mbps
Analytics:	
IPsec VPN Throughput:	400 Mbps
Concurrent VPN Tunnels:	20
Concurrent Sessions (TCP):	32,000
Typical Client Count:	100
LEDs	
	Refer to the R1900 Quick Start Guide.

[†]NOTE: 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.



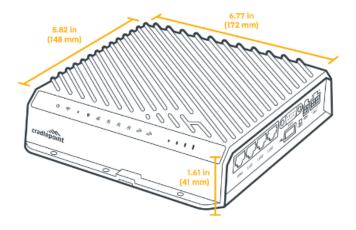
Enterprise-Class Modem Specifications

SPECIFICATION	R1900-5GB
Technology:	5G NR (low-band, mid-band FR1) and 4G LTE Category 20 LTE Advanced Pro with Dual Connectivity
	Dual SIM slots, 4FF form factor
3G:	WCDMA/UMTS/HSPA+
Carrier Aggregation:	LTE only; up to 7 CA downlink, 2 CA uplink ENDC 5G + LTE; downlink and uplink supported.
	See the Modern Carrier Aggregations article.
Peak Downlink Rates:	Up to 4.14 Gbps — based on 20 Layers LTE + TDD (100 MHz BW, 256 QAM, 4 x 4)
Peak Uplink Rates:	Up to 660 Mbps — based on 2 Layers LTE + TDD (100 MHz BW, 256 QAM, SISO)
MIMO:	4x4 MIMO
Modulation:	Up to 256 QAM
4G/LTE Bands:	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B18, B19, B20, B21, B25, B26, B28, B29, B30, B32, B34, B38,
	B39, B40, B41, B42, B43, B46, B48, B66, B71
5G NR Bands:	n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n41, n48, n66, n71, n77, n78, n79
3G Bands:	B1, B2, B3, B4, B5, B6, B8, B9, B19
Power:	LTE only; 23 dBm ± 1 (typical conducted) ENDC 5G + LTE; 20 dBm ± 1 (typical conducted)
Antennas:	4 x SMA female connectors
	External cabled out 600 MHz - 6 GHz cellular antennas (not included)
GNSS/GPS:	Discrete active GPS with dead reckoning
SMS:	Yes
Regulatory:	FCC (U.S.), IC (Canada), CE (EU), RCM (AU/NZ) (pending)
Network Operator Standards:	PTCRB (U.S., Canada), GCF (Worldwide)
Network Operator	AT&T, EE, Telstra, T-Mobile, Verizon [†]
Certifications:	
Public Safety Network	ESN (4G), FirstNet Trusted™, T-Mobile Connecting Heroes, Verizon Frontline, Verizon Response
Certifications:	Verified (pending)
Private Cellular Network:	Yes, includes FCC Part 96 (CBRS Band 48)

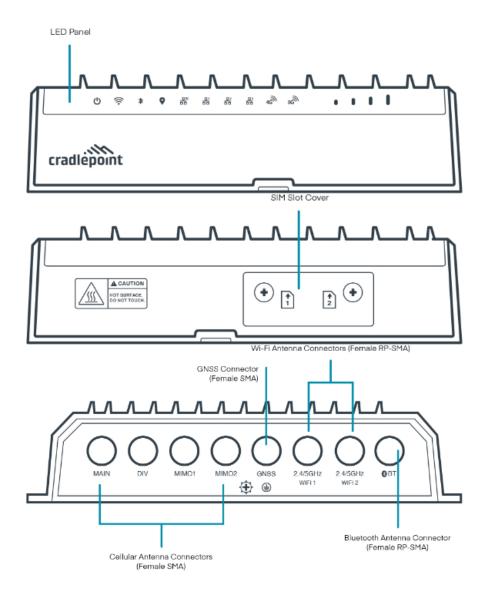
[†]Cellular carriers and operators throughout the world may only require telecom industry certifications, like PTCRB or GCF, to operate on their network. Some carriers require additional testing and approval, beyond telecom certifications, to operate on their network. A carrier listed in the approvals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

Physical Measurements & Features

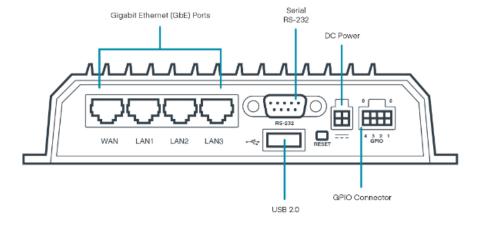




Features







SIM Card Info



Ordering Guide

NetCloud Mobile Performance Essentials packages and plans contain all the features and capabilities required for a broad range of mobile or in-vehicle 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 Mobile Performance Advanced Plan** can be added to the NetCloud Mobile Performance Essentials Package at any time.

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

NetCloud Mobile Performance Packages for the R1900 Series Router

REGION	MODEM	MOBILE PACKAGE PLAN	PART NUMBER
United States	5G with Wi-Fi & 4FF SIM, no AC power supply or	TAA Compliant NC — Essentials	TAA-MB0y-
Federal	antennas		19005GB-GA
Government:		TAA Compliant NC — Essentials +	
		Advanced	TAA-MBAy-
			19005GB-GA
	5G with Wi-Fi, 4FF SIM optional but not included,	TAA Compliant NC FIPS — Essentials	TAA-MBAy-
	no AC power supply or antennas	+ Advanced	19005GB-FA
	5G with Wi-Fi	Renewal FIPS — Essentials +	MBAx-NCESSF-R
		Advanced	
All Regions:	5G with Wi-Fi, no AC power supply or antennas	Essentials	MB0x-19005GB-GA
		Essentials + Advanced	MBAx-19005GB-GA



5G	Advanced	MB0x-NCADV
	Renewal Essentials	MB0x-NCESS-R
	Renewal Advanced	MB0x-NCADV-R
	Renewal Essentials + Advanced	MBAx-NCEA-R

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

Accessories

INCLUDED	PART NUMBER
GPIO Cable, 2x2, 3 meters, 20AWG	170864-000
Mounting Screw Pack	N/A
Mounting Template	N/A
OPTIONAL	
GPIO Cable, Small 2x2 Black, 3 meters, 22 AWG	170585-001
One of the following line cord options:	
 Line Cord, U.S. (C7), 1.8 meters, North America 	170623-001
Line Cord, U.S. (C7), 1.8 meters, North America Line Cord, EU (C7), 1.8 meters, European Union	170623-002
Line Cord, EG (C7), 1.8 meters, European Union Line Cord, UK (C7), 1.8 meters, United Kingdom	170623-003
Line Cord, AU (C7), 1.8 meters, Officed Kingdom Line Cord, AU (C7), 1.8 meters, Australia	170623-004
— Line Cord, AO (C7), 1.6 meters, Australia	
Small 2x2 Power to Barrel Adapter, 152 mm	170665-000
For non-production bench testing only:	
Oulliste Assess 700 MHz 77 OHz 0MA Blast Mist 70t 40	170704-002
— Cellular Antenna, 600 MHz - 6 GHz, SMA Black Mini (Qty 4)	170836-000
 Wi-Fi Antenna, Charcoal, Dual-Band 2.4/5 GHz, RPSMA (Qty 2) 	
Mag Mount Kit	170718-000
OBD-II Adapter Kit	170758-000
GPIO Cable, Small 2x3 MPP Black, 3 meters, 18 AWG	170858-000
GPIO Cable, Small 2x2 MPP Black, 3 meters, 20 AWG	170864-000
Power Supply, 12 V, Small 2x2 (C7 line cord not include), -30 °C to 70 °C (-22 °F to 158 °F)	170869-000
Rail Safe GPIO Cable, Small 2x2 Black, 3 meters, 20 AWG	170871-000
LTE Captive Modem Accessory, Indoor, CBA550-150M-D (150 Mbps modem), Americas	170900-001
LTE Captive Modem Accessory, Indoor, CBA850-1200M-B (1200 Mbps modem), Americas	170900-003
LTE Captive Modem Accessory, Indoor, L950-C7A (300 Mbps modem), Americas	170900-005
5G Captive Modem Accessory, Outdoor, W2005-5GB (4.1 Gbps modem), North America	170900-007
5G Captive Modem Accessory, Outdoor, High-Band, W4005-5GB (7.5 Gbps modem), North America	170900-011
5G Captive Modem Accessory, Indoor, W1850-5GB (4.1 Gbps modem), Americas	170900-012



RX30-MC Managed Accessory — Modular Modem and Switch (modem sold separately)	MB-RX30-MC
 MC400 LTE Advanced Pro Modem (1200 Mbps) upgrade for Mobile. Includes IBR1700 with COR Extensibility Dock doors, no antennas[†] 	MA-MC400-1200M-B
 MC400 5G Modem (requires 4FF SIM) upgrade for R1900 with RX30-MC or IBR1700 Mobile Routers with doors[†] 	MB-MC400-5GB
RX30-PoE Managed Accessory — PoE Switch	MB-RX30-POE
UNITED STATES FEDERAL GOVERNMENT	
GPIO Cable, Small 2x2 Black, 3 meters, 22 AWG	TAA-170585-001
LTE Captive Modem Accessory, Indoor, CBA550-150M-D (150 Mbps modem), Americas	TAA-170900-001
LTE Captive Modem Accessory, Indoor, L950-C7A (300 Mbps modem), Americas	TAA-170900-005
5G Captive Modem Accessory, Outdoor, W2005-5GB (4.1 Gbps modem), North America	TAA-170900-007
5G Captive Modem Accessory, Outdoor, High-Band, W4005-5GB (7.5 Gbps modem), North America	TAA-170900-011
5G Captive Modem Accessory, Indoor, W1850-5GB (4.1 Gbps modem), Americas	TAA-170900-012
RX30-MC Managed Accessory — Modular Modem and Switch (modem sold separately)	TAA-MB-RX30-MC
 MC400 LTE Advanced Pro Modem (1200 Mbps) upgrade for Mobile. Includes IBR1700 with COR Extensibility Dock doors, no antennas[†] MC400 5G Modem (requires 4FF SIM) upgrade for R1900 with RX30-MC or IBR1700 Mobile Routers with 	TAA-MA-MC400- 1200M-B
doors [†]	TAA-MB-MC400-5GB
RX30-PoE Managed Accessory — PoE Switch	TAA-MB-RX30-POE

[†]Refer to the Cradlepoint MC400 Modular Modem webpage for more information about modular modems.

Support & Warranty

The R1900 Series 5G Ruggedized Router is only sold as a component of NetCloud Mobile Performance Essentials or Essentials + Advanced 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.

More Information

Find the most up-to-date information at cradlepoint.com/r1900