R1900 Series 5G Ruggedized Router

High-performance 5G router for the ultimate in-vehicle network connectivity

Firewall Throughput:
940 Mbps

WAN Connectivity:
5G & LTE Cat 20

LAN Connectivity:
Wi-Fi 6, GbE, BT 5.1

NetCloud Solution:
Mobile Performance

The R1900 Series router was built from the ground up to handle high-performance mobile 5G connectivity and edge computing. Purpose-built to withstand extreme environments, the R1900 is an all-in-one mobile networking solution ideally suited for installations within a wide range of vehicles including metro transit buses, school buses, commercial fleets, as well as first responder vehicles such as police, fire, ambulance, and mobile command trailers.

The R1900 is part of a NetCloud Mobile Performance Package. 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. When coupled with the Advanced Mobile Performance service plan, you gain full suite of security and AVL capabilities including threat management, web filtering, application visibility, analytics, and advanced GNSS/GPS functionality including location tracking and cellular coverage maps.

Key Features:

— 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

— Integrate into AVL systems with discrete GNSS and dead reckoning

— Extend your deployment with powerful edge compute capabilities and container support

— Enable unified edge security with application aware multizone firewalls, IDS/IPS, and Internet security

— Define policies through centralized cloud-based management for easy deployment at scale

Hardware Specs

Category	Mobile
Cloud Management	Yes
Wireless Connectivity	Dual Connectivity 5G & Cat 20 LTE
5G Status	5G Embedded
Form Factor	Ruggedized Metal
Ethernet Ports	4 GbE (LAN/WAN switchable)
Ports	USB Port: 1, Serial Port: 1
Bluetooth	Yes, embedded Bluetooth 5.1
Dual-Modem Support	Yes, with RX30-MC
Network Operator Standards	PTCRB (U.S.), GCF (global)
Network Operator Certifications	AT&T, EE, T-Mobile, Verizon
Regions	North America, Latin America, Europe, Africa/Middle East, Asia-Pacific *See country and model availability*
Public Safety Networks	FirstNet Ready™ (LTE now, 5G pending); T-Mobile Connecting Heroes; Verizon Frontline *See data sheet for model applicability*
Firewall Throughput	940 Mbps
VPN Tunnel Count	20
Wi-Fi	Dual-band, dual-concurrent; 802.11ax (Wi-Fi 6)
GNSS/GPS	Discrete active GNSS with dead reckoning
PoE	Yes, with RX30-PoE
Operating Temp	-30 °C to 70 °C (-22 °F to 158 °F)
Rack Mountable	No
Private Cellular Network	Yes (4G, 5G, CBRS)

NetCloud Comparison for Mobile

NetCloud Service for Mobile provides the enterprise capabilities that organizations need to manage their in-vehicle work and includes:

— Centralized endpoint management with insights and visual analytics

— 24×7 enterprise support and limited lifetime warranty

— On-demand training with Cradlepoint University

Secure Remote Management & Orchestration	🔵
Dynamic Routing Protocols, Traffic Steering & QoS	🔵
Zone-Based Firewall & VPN	🔵
In-Band & Out-of-Band Management	🔵
Real-Time Troubleshooting Tools & Diagnostics	🔵
Insights, Alerts & Dashboard Analytics	🔵
Modem-Data-Usage Dashboard & Predictive Alerting	🔵
Location Services	🔵
Extensibility (SDK, API, third-party integrations)	🔵
5G Cellular Coverage Map & Location Tracking	🟡
Application-Aware Traffic Steering, QoS, Networking & Firewall	🟡
Web Filtering & Threat Management	🟡
Cellular Health, Traffic & Security Dashboards	🟡
IoT Ecosystem Integration (Microsoft, AWS)	🟡
Docker Container Support	🟡

🔵 *Included*   🟡 *Advanced*

Learn more at cradlepoint.com/r1900-series

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