

Cradlepoint R1900 Series

High-performance 5G mobile 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	5G/4G Dual Connectivity
5G Status	5G Embedded
Form Factor	Ruggedized Metal
Ethernet Ports	4 GbE (LAN/WAN switchable)
USB Ports	1
Serial Ports	1
Bluetooth	Yes, embedded Bluetooth 5.1
Dual-Modem Support	Yes, with future RX30-MC
Network Operator Standards	PTCRB (U.S.), GCF (global)
Network Operator Certifications	AT&T, Verizon
Regions	North America, Europe; APAC, LATAM (pending)
Public Safety Networks	Pending: FirstNet Ready™ & Verizon Response Verified
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 Temperature	-30 °C to 70 °C (-22 °F to 158 °F)
Rack Mountable	No
Private Cellular Network	Yes (4G, 5G, CBRS)

NetCloud Comparison for Mobile

Cradlepoint R1900 Series router is part of a NetCloud Mobile Performance package, an all-inclusive networking service comprised of support, hardware, and software services.

- Business intelligence and remote cloud management
- Purpose-built hardware for 5G performance
- 24x7 enterprise support and limited lifetime warranty

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	●

● Essentials ● Advanced

[Learn more at cradlepoint.com/r1900-series](https://www.cradlepoint.com/r1900-series)