

R920 Series Ruggedized Router

Versatile, ruggedized LTE router for advanced in-vehicle and IoT connectivity



Firewall Throughput:
940 Mbps



WAN Connectivity:
4G Cat 7, GbE



LAN Connectivity:
Wi-Fi 6, GbE, Bluetooth®
wireless technology



Management:
NetCloud

The R920 Series, a versatile LTE router with a wide span of use cases, provides flexible connectivity in vehicles and IoT deployments. With its IP64 ruggedization rating and certifications for public safety networks, the R920 can be deployed in automobile trunks, warehouses, NEMA enclosures, and harsh environments. The R920 supports a managed accessory that allows the addition of a 5G modular modem for increased performance and multiple carrier support. The ruggedized design and the CBRS band support make it ideal for private networks. The solution is highly extensible with APIs, SDKs, and integrations into IoT platforms, and the generous memory supports onboard edge containers and security services.

As part of a NetCloud Mobile or NetCloud Ruggedized IoT Package, Cradlepoint NetCloud provides connectivity, network, security, and location services to connect everything in the vehicle or IoT deployment. These services also provide IT access to secure remote management, troubleshooting, and analytics without requiring onsite staff. When coupled with the Mobile Performance service plan, organizations gain a full suite of security and AVL capabilities, including threat management, web filtering, application visibility, analytics, and advanced GNSS/GPS functionality with location tracking and cellular coverage maps. The R920 also supports NetCloud Exchange services, which provide Zero Trust Network Access and 5G optimized SD-WAN.

Key Benefits:

- Gain fast, reliable connectivity with Cat 7 LTE providing fast upload for video and data
- Add a second LTE or 5G cellular modem for multi-link dependability
- Deploy Wi-Fi 6 for the best possible connections
- Prioritize access to public safety networks for reliable, secure connectivity
- Enable unified edge security with application-aware multizone firewalls, IPS/IDS, and available FIPS 140-3 Level 1 Implementation Under Test
- Extend your deployment and enable customized solutions with powerful edge compute capabilities, including containers, connectors, SDKs, and API support

Hardware Specs

Category	Mobile or IoT
Cloud Management	Yes
Wireless Connectivity	4G/LTE
5G Status	5G Ready with Modular Modem or Adapter
Form Factor	Ruggedized Metal
Ethernet Ports	2 GbE (LAN/WAN switchable)
USB Ports	1
Serial Ports	0
Bluetooth	Yes, embedded Bluetooth®
Dual-Modem Support	Yes, with RX20
Network Operator Standards	PTCRB (U.S.), GCF (global)
Network Operator Certifications	AT&T, T-Mobile, Verizon
Regions	North America, Latin America, Europe, Africa & Middle East, Asia-Pacific <i>See country and model availability</i>
Public Safety Networks	FirstNet Trusted, T-Mobile Connecting Heroes, Verizon Frontline <i>See data sheet for model applicability</i>
Firewall Throughput	940 Mbps
VPN Tunnel Count	20
Wi-Fi	Dual-band, dual-concurrent; 802.11ax (Wi-Fi 6)
GNSS/GPS	Passive
PoE	No
Operating Temperature	-30 °C to 70 °C (-22 °F to 158 °F)
Antennas & Power Adapter Included	IoT Package only
Private Cellular Network	Yes — CBRS, 4G LTE

NetCloud Features for Mobile & IoT

NetCloud Service delivers what organizations need to keep vehicles and IoT solutions connected and data secure and includes:

- **NetCloud Manager** for cloud-based control of LTE and 5G Wireless WANs
- Optional **NetCloud Exchange** 5G- and security-first WAN services
- 24x7 enterprise support and limited lifetime warranty
- On-demand training with Cradlepoint University

	Mobile	IoT
Secure Remote Management & Orchestration	●	●
Dynamic Routing Protocols, Traffic Steering & QoS	●	●
Zone-Based Firewall & VPN	●	●
Insights, Alerts & Dashboard Analytics	●	●
Extensibility (SDK, API, third-party integrations)	●	●
Troubleshooting & Diagnostics	●	●
Real-Time Troubleshooting Tools	●	●
Modem-Data-Usage Dashboard & Predictive Alerting	●	●
Location Services	●	●
Docker Container Support	●	●
Cellular Health, Traffic & Security Dashboards	●	○
Cellular Coverage Map & Location Tracking	●	○
Application-Aware Traffic Steering, QoS, Networking & Firewall	●	○
Web Filtering & Threat Management	●	○
NetCloud Exchange Secure Connect	●	●
NetCloud Exchange SD-WAN	●	●
NetCloud Exchange ZTNA	●	●

● Included ● Advanced ● Additional Services ○ Not Supported

Learn more at cradlepoint.com/r920