R500-PLTE Series Ruggedized Router

Compact, ruggedized Private LTE (PLTE) router for advanced connectivity

Firewall Throughput: 850 Mbps

WAN Connectivity: PLTE Cat 7, GbE

LAN Connectivity: Wi-Fi 5, GbE

Management: NetCloud

The Cradlepoint R500-PLTE Router is a ruggedized Private LTE networking platform that provides persistent connectivity across a wide range of applications, including portable or fixed IoT installations. The R500-PLTE accommodates harsh environments while delivering enterprise-class standards of reliability, scalability, comprehensive management, and security.

Designed for deployments in manufacturing, distribution, transportation, education, and others taking advantage of the low fixed operating costs, enhanced data security, and improved network performance Private Cellular Networks (PCN) provide. The R500-PLTE Router provides a compact ruggedized PCN solution with Wi-Fi, Gigabit Ethernet, and Cat 7 LTE for connecting and protecting IoT devices at scale.

The R500-PLTE Router comes complete with the Cradlepoint NetCloud Service Plan for IoT — an all-inclusive networking service package comprised of services, support, and hardware including antennas and power adapter. NetCloud delivers complete visibility, security, and control as well as health and status alerts on security posture, network conditions, and usage for connected devices anywhere.

Key Benefits:

— Deploy a value-driven PLTE networking solution with industry-leading features

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

— Install the compact and ruggedized router in harsh environments where connectivity must be reliable

— Deploy an FCC Part 96 authorized end-user device for Band 48 OnGo CBRS networks

— Expand with custom solutions using GPIOs and NetCloud SDK, API, and NetCloud Edge Connector for Microsoft Azure IoT Central

— Add a second cellular modem, with an Extensibility Dock, for multi-link capability

Hardware Specs

Category	IoT
Cloud Management	Yes
Wireless Connectivity	Private LTE Cat 7
Form Factor	Ruggedized Metal
Ethernet Ports	2 GbE (LAN/WAN switchable)
USB Ports	1
Dual-Modem Support	Yes with COR Extensibility Dock
Network Operator Standards	FCC Part 96
Network Operator Certifications	Private LTE
Regions	U.S. only
Public Safety Networks	Verizon Frontline *See data sheet for model applicability*
Firewall Throughput	850 Mbps
VPN Tunnel Count	10
Wi-Fi	Dual-band, dual-concurrent; 802.11ac Wave 2 (Wi-Fi 5)
GNSS/GPS	Active
PoE	No
Operating Temperature	-30 °C to 70 °C (-22 °F to 158 °F)
Antennas & Power Adapter Included	IoT Package only

NetCloud for Private LTE

NetCloud Service encompasses a suite of technologies designed for Private LTE and IoT applications: reliability, security, management, and data orchestration 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	●
Troubleshooting & Diagnostics	●
Insights, Alerts & Dashboard Analytics	●
Extensibility (SDK, API, third-party integrations)	●
Secure Overlay Perimeter Network	●
In-Band & Out-of-Band Management	○
Real-Time Troubleshooting Tools	○
Cellular Health & Modem Data-Usage Dashboards	○
IoT Ecosystem Integration (Microsoft Azure IoT Central)	○
Location Services	○

● *Included*   ○ *Advanced*

Learn more at cradlepoint.com/r500-plte

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