

R500 Indoor 5G/4G CPE

R500 is a high-performance 5G indoor CPE (IDU), supporting **NR(SA&NSA)**, **TDD-LTE**, and **FDD-LTE**. It acts as a Fixed Wireless carrier connection, enabling WiFi and wired network port data, supporting **1 x 2.5G LAN/WAN** port and **1 x 1G LAN** port, and **2.4GHz+5GHz dual-band WiFi-AP**.

Suitable for **home** or **business** scenarios that requiring the rapid deployment of wired broadband networks and WiFi hotspots.



Cellular specifications

Frequency and Speeds	<p>Standard:</p> <p>5GSub-6: n1/3/5/7/8/20/28(a&b)/38/40/41/77/78/79</p> <p>LTE : B1/3/5/7/8/19/20/28(a&b)/32/38/40/41/42/43/46 WCDMA: B1/5/8</p> <p>Optional :</p> <p>5G NR:n2/n5/n7/n12/n14/n25/n30/n41/n66/n71/n77/n78</p> <p>LTE:B2/4/5/7/12/13/14/17/25/26/29/30/66/71/41/46/48</p> <p>5G Sub-6: Downlink 4.67Gbps, uplink 1.25Gbps</p> <p>LTE Cat20: Downlink 1.6Gbps, uplink 211Mbps</p>
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WiFi specifications

WiFi Protocol	Supports IEEE802.11 a/b/g/n/ac/ax - WiFi 6
WiFi Frequency Band	2.4GHz + 5GHz
Theoretical Bandwidth	2.4GHz 4x4MIMO 11ax, 1.146Gbps 5GHz 4x4MIMO 11ax, 2.4Gbps
Channel Bandwidth	20MHz, 40MHz, 80MHz, 80+80MHz

Software

HTTPS/HTTP	Both
User Login	Supports two users (admin user and normal user) and different limitation and display
Network Status	Signal strength Network type(5G/4G..) SIM card status Wi-Fi Status LAN Status
System Status	Mobile parameters, APN/DHCP/Wi-Fi information, Memory details, Version/Device information
Internet Settings	Network mode setup, Data switch, Roaming setup
APN Setup	APN name, Nat Switch on APN bear, PDP(IPV4/IPV6/IPV4V6), MTU size
Browser-based Administration GUI	IE, Firefox, Safari, Chrome
SIM Card	PIN Management SIM card Authentication
DHCP Setup	Enable/disable DHCP server Configure DHCP IP Pool Configure DHCP Lease Time
Static Route	Route Setup on WAN/LAN interface
DDNS	Supported
Band Lock	Supported
PCI Lock	Supported
Cell Lock	Supported
Carrier SIM Lock	Supported
VPN	VPN Passthrough
Backup/restore	Encryption backup current settings and restore the backup settings (Export/Import Configuration)
Voice (Optional)	Supports VoLTE and VoNR(In Roadmap)
Work Mode	NAT/ Router mode

Hardware

CPU	2GHz Quad-Core CPU
FLASH	1GB (32GB for Optional Version)
LPDDR4	1GB (2GB for Optional Version)

Device Management

Software Update	WebUI update TR069 update
TR069 (In Roadmap)	HTTP/HTTPS Supports upload / download the ACS specified file Supports download CPE configuration file Supports configure & queries parameters Supports remote upgrade Supports cycle monitor
SNMP	Supported
Diagnostics	Ping/Trace/Tcpdump Export current diagnosis results and operation logs

Power Supply

Standard Power Supply	DC 12V/3A
Power Supply Range	DC 9~24V
Working Current	< 1.1A (12V)

Interfaces

LAN/WAN Port	1 x 2.5G Ethernet (RJ45), auto MDI/MDIX
LAN Port	1 x 1G Ethernet (RJ45), auto MDI/MDIX
Phone Interface (Optional)	1 x RJ11 port
Indicator LEDs	Signal, 5G, 4G, WIFI, Power
SIM/UIM Card	Nano-SIM, Compatible with eSIM card
Power Interface	DC power socket, built-in power reverse protection
USB Port	Type C 2.0
Reset Button	Reset the parameters to factory setting

Physical Characteristics

Outer Shell	ABS Material, protection level IP30
Dimensions	178 x 98 x 98 mm
Weight	680g
Operating Temperature	-10 ~ +50°C
Storage Temperature	-40 ~ +85°C
Humidity	95% (non-condensing)