Model: LT500D 3.0

4G AC1200 Wi-Fi Router with Detachable Antennas



Datasheet

Highlights

A 4G WiFi router with one nano SIM slot and four Ethernet ports, providing easy-to-install flexible networks for home, office, surveillance, exhibitions, and RV scenarios.

- 4G Cat. 4 with Max 150 Mbps DL
- 4-Stream Dual-Band Wi-Fi 5
- 867 Mbps + 300 Mbps Wi-Fi
- 4× Fast Ethernet Ports
- 1× Nano SIM Slot
- Detachable Cellular Antennas
- Cudy Mesh, VPN Server and Client
- Cudy App, Cloud Control

Actual cellular speeds will vary depending on carrier conditions and environmental factors such as cellular base station location/distance, nearby clients density, building layout, and physical obstacles.

Actual wireless data throughput will vary as a result of network conditions, client limitations, and environmental factors including building layout, obstacles, and client location.

Package Content

- LT500D
- Power Adapter
- Ethernet Cable
- Installation Guide

Hardware Specs

Model Version	LT500D 3.0	
CPU	CPU Details	580 MHZ Single-Core, MIPS24KEC
Memory/Storage	Flash/ROM	16 MB (128 Mbit) NOR
	DDR/RAM	128 MB (1 Gbit) DDR2
Cellular	Cellular Standards	4G Cat. 4
	Cellular Antennas	2× Detachable
	Detachable Cellular Antennas Connector	SMA Female
	SIM Options	1× Nano SIM Slot
	Available Versions	EU, US, LA, CN
EU Version Cellular	Suitable Regions	Europe, Middle East, Africa
	Max DL Speed	150 Mbps (LTE-FDD), 130 Mbps (LTE-TDD)
	Max UL Speed	50 Mbps (LTE-FDD), 30 Mbps (LTE-TDD)
EU Version Cellular	Advanced	DL 2×2 MIMO
	Cellular Bands	LTE-FDD: B1/3/5/7/8/20/28 LTE-TDD: B38/40/41 WCDMA: B1/5/8
US Version Cellular	Suitable Region	United States, Canada
	Max DL Speed	150 Mbps (LTE-FDD), 130 Mbps (LTE-TDD)
	Max UL Speed	50 Mbps (LTE-FDD), 30 Mbps (LTE-TDD)
	Advanced	DL 2×2 MIMO
	Cellular Bands	LTE-FDD: B2/4/5/12/13/17/25/26 LTE-TDD: B41 WCDMA: B2/4/5
CN Version Cellular	Suitable Regions	China, India
	Max DL Speed	150 Mbps (LTE-FDD), 130 Mbps (LTE-TDD)

Hardware Specs

CN Version Cellular	Max UL Speed	50 Mbps (LTE-FDD), 30 Mbps (LTE-TDD)
	Advanced	DL 2×2 MIMO
	Cellular Bands	LTE-FDD: B1/3/5/8 LTE-TDD: B34/38/39/40/41 WCDMA: B1/5/8
LA Version Cellular	Suitable Regions	Latin America
	Max DL Speed	150 Mbps (LTE-FDD), 130 Mbps (LTE-TDD)
	Max UL Speed	50 Mbps (LTE-FDD), 30 Mbps (LTE-TDD)
	Advanced	DL 2×2 MIMO
	Cellular Bands	LTE FDD: B1/2/3/4/5/7/8/28/66 LTE TDD: B40 WCDMA: B1/2/4/5/8 GSM: B2/3/5/8
Wireless	5 GHz Wi-Fi Speed	867 Mbps

Wireless	2.4 GHz Wi-Fi Speed	300 Mbps
	5 GHz Wi-Fi Streams	2 Spatial Streams
	2.4 GHz Wi-Fi Streams	2 Spatial Streams
	Wi-Fi Antennas	2× External
	Beamforming	True
	FEM or PA/LNA	5 GHz: 2× Internal, 2.4 GHz: 2× Internal
	Range Performance	Max: 170 m (558 ft) Tested in open-space environments with minimal interference. Actual WiFi range may vary depending on layout and wall materials. Refer to the Wall Performance specifications for placement suggestions.
	Wall Performance	Two wooden walls with thickness < 10 cm (4") One concrete wall with thickness < 20 cm (7")

Hardware Specs

Interfaces	10/100 Mbps RJ45 Ports	4
	Ethernet Notes	1× RJ45 port is WAN/LAN configurable, and the rest are LAN ports
Buttons and LEDs	Physical Buttons	WPS Button, Reset Button
	LED	System, Speed/Link/ACT of Ethernet Port
Power	Power Input Type	DC Jack
	Power Methods	DC
	Power Input	12V⎓1A
	Max Power Consumption (W)	5.27W
	Idle Power Consumption (W)	2.33W
	Power Adapter In the Box	Input: 100-240V~, 50/60Hz Output: 12V⎓1A
Reliability	EMC	ESD: Contact: 4kV; Air: 8kV

Reliability	Environment	Operating Temperature: 0 ℃ ~ 40 ℃ (32 ℉ ~104 ℉) Storage Temperature: -40 ℃ ~ 70 ℃ (-40 ℉ ~ 158 ℉) Operating Humidity: 10% ~ 90% non-condensing Storage Humidity: 5% ~ 90% non-condensing
Certifications	FCC, CE	
Mechanical	Dimension	204.8×133.2×38.3 mm 8.06×5.24×1.51 inches
	Product Weight	312.0 g (11.01 oz.)
	Installation	• Desktop • Wall-mount
Package Content	• LT500D • Power Adapter • Ethernet Cable • Installation Guide	
Ordering Information	Retail Package Weight	EU: 755.4 g (26.65 oz.)

Hardware Specs

Ordering Information	Retail Package Dimension	340×275×60 mm 13.39×10.83×2.36 inches
	Carton Net Weight	EU: 7.6 kg (16.76 lbs)
	Carton Gross Weight	EU: 8.4 kg (18.52 lbs)
	Carton Dimension	57×32.5×35.8 cm 22.44×12.8×14.09 inches

Software Specs

Model Version	LT500D 3.0	
Wireless	Wi-Fi Standards	Wi-Fi 5
	Max Wi-Fi Modulation	256-QAM
	Wi-Fi Efficiency	MU-MIMO
	Wi-Fi Efficiency Note	MU-MIMO available on 5 GHz
	Max Capacity	128
	Recommended Client Upper Limit	40
	Wi-Fi Channel Width	Auto/20/40/80 MHz
	Wi-Fi Security	WPA/WPA2/WPA3
	Guest Network	2.4 GHz, 5 GHz
	WPS	True
General	Operation Modes	• Cellular Router • Wi-Fi Router • WISP

Software Specs

General	Mesh	Cudy Mesh Main
	Mesh Backhaul	• Wireless Backhaul • Wired Backhaul
	Cellular APN	• Band Select (Band Lock) • Cellular Mode Select • Data Roaming • APN Profile • Manual APN Profile • MBN • MTU Value
	Cellular Mode	• 4G Only • 3G Only • Auto
	WAN Mode	• DHCP • Static IP • PPPOE • L2TP • PPTP
	Internet Failover Sequence	• WAN • WISP • Cellular
Network	QoS	Per-User Rate Limiting

Network	DHCP	• Address Reservation • DHCP Client List • Server
	IP Versions	IPv4/IPv6
	IPv6 Protocols	• Relay • Dynamic (SLAAC/DHCPv6) • Static (Fixed IP) • Passthrough • 464XLAT • MAP-E • DS-Lite
	Multicast	True
	IPTV/VLAN	• Bridge • Tag VLAN
	TTL Customization	• Extend • Spoof • Custom
	IGMP	• IGMP Proxy • IGMP Snooping

Software Specs

Network	Forwarding	• Port Forwarding • Port Triggering • UPnP • DMZ
	Firewall	• SPI Firewall • DoS Protection • Block PING
	Application Layer Gateway	• IPSec Passthrough • L2TP Passthrough • PPTP Passthrough • FTP Passthrough • TFTP Passthrough • H323 Passthrough • SIP Passthrough • RTSP Passthrough
Utilities	VPN Server	• WireGuard • OpenVPN • IPsec • Zerotier • PPTP • L2TP

Utilities	VPN Client	• WireGuard • OpenVPN • IPsec • Zerotier • PPTP • L2TP
	DNS Options	• DNS over TLS • Manual DNS • Rebind Protection • Override Clients' DNS
	DNS over TLS Providers	• Cloudflare • Google • Quad9 • Custom
	SMS	• Send • Receive • USSD (Optional for Bulk Order)
	Wake on LAN	True
	Online Detection	True

Software Specs

Management	Parental Controls	• Profiles Settings • Offline Time • Online Time • Pause the Internet • Web Filter
	All Devices Management	• Wi-Fi Time Schedule • MAC Filter • IP/MAC Binding
	Per-Devices Management	• Internet On/Off • VPN On/Off • Online Time Schedule • Device Rename
	Content Management	• Domain Filtering • IP Filtering
System	Local Control Method	• Config Web Page • App Control
	Remote Control Method	• Config Page via HTTPS • App Control • TR069/TR098/TR111/TR143/TR181/TR369

System	Firmware Upgrade	• Local Update • App (Over the Air) • Online Update
	Diagnostic Tools	• Diagnosis • Ping • Traceroute • NSLookup • System Log

Software Specs

System	Languages	• English • Bengali • Catalan • Czech • German • Greek • Spanish • French • Hebrew • Croatian • Hungarian • Italian • Japanese • Khmer • Korean • Dutch • Norwegian • Polish • Portuguese • Romanian • Russian • Slovak • Swedish • Thai • Turkish • Ukrainian • Vietnamese • Simplified Chinese • Traditional Chinese

System	Reliability	• Timed Reboot • Backup and Restore
Dashboard	Panel	• Internet Status • Mesh Status • Devices Management • Cellular Status • SMS Send and Receive • WAN Status • LAN Status • WISP Status • Wi-Fi Status • VPN Status • DHCP Server Status • System Version
	Charts	• Mesh Topology • Cellular Speed • Internet Speed • WISP Speed • Wi-Fi Speed
Wireless	Separate Client	True