Model: LT500 Outdoor 2.0

Indoor/Outdoor 4G AC1200 Wi-Fi Router



Datasheet

Highlights

A pole/wall-mounted outdoor 4G CPE with IP65 casing, dual-band WiFi, one SIM slot, and accepting PoE, featuring AC1200 Wi-Fi, Cudy Mesh main node, and VPN features.

- IP65, -40~65℃ (-40~149℉), 4kV Surge
- 4G Cat. 4 with Max 150 Mbps DL
- 4-Stream Dual-Band Wi-Fi 5
- 867 Mbps + 300 Mbps Wi-Fi
- 1× Fast Ethernet Port (PoE In)
- 1× Nano SIM Slot
- 50 Connected Devices
- 24V Passive PoE
- 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.

Actual performance for multiple devices may be affected by the types of applications used, the total available bandwidth, and the capabilities of your devices. Connecting older Wi-Fi devices (legacy standards) may reduce overall efficiency. Using efficiency features requires compatible client devices that also support those features. Find more information about supported efficiency features in the software section of the Specs spreadsheet.

Package Content

- LT500 Outdoor
- Detachable Antennas
- PoE Adapter
- Power Cord
- Mounting Kit
- Ethernet Cable
- Installation Guide

Hardware Specs

Model Version	LT500 Outdoor 2.0	
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
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
LA Version Cellular	Suitable Regions	Latin America
	Max DL Speed	150 Mbps (LTE-FDD), 130 Mbps (LTE-TDD)

Hardware Specs

LA Version Cellular	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
	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× Internal
	Beamforming	True
	FEM or PA/LNA	5 GHz: 2× Internal, 2.4 GHz: 2× Internal

Wireless	Range Performance	Max: 170 m (558 ft) Park: 150 m (492 ft) Street: 50 m (164 ft) Woods: 30 m (98 ft)
Interfaces	10/100 Mbps RJ45 Ports	1
	Ethernet Notes	ETH0: PoE In
Buttons and LEDs	Physical Buttons	Reset Button
	LED	System, Internet, LAN, Wi-Fi, Cellular Signal Strength
Power	Power Input Type	PoE via Ethernet Port
	Power Methods	Passive PoE
	Power Input	24V⎓
	Max Power Consumption (W)	10W
	Idle Power Consumption (W)	5 W
	Power Adapter In the Box	Input: 100-240V~, 50/60Hz Output: 24V⎓ Passive PoE

Hardware Specs

Reliability	Ingress Protection Rating	IP65
	EMC	ESD: Contact: 4kV; Air: 8kV IEC/EN 61000-4-5, Level 4 Surge: Power: DM 2kV, CM 4kV; RJ45: CM 4kV
	Environment	Operating Temperature: -20 ℃ ~ 60 ℃ (-4 ℉ ~140 ℉) Extend Operating Temperature with Industrial Grade SIM Card: -40 ℃ ~ 65 ℃ (-40 ℉ ~ 149 ℉) Storage Temperature: -40 ℃ ~ 70 ℃ (-40 ℉ ~ 158 ℉) Operating Humidity: 0% ~ 100% non-condensing Storage Humidity: 5% ~ 90% non-condensing
Certifications	FCC, CE	

Mechanical	Dimension	Main Part: 240×100×53.7 mm 9.45×3.94×2.11 inches Antenna: 197.5×21.6×15.5 mm 7.78×0.85×0.61 inches
	Product Weight	428.2 g (15.1 oz.)
	Installation	• Wall-mount • Pole-mount
Package Content	• LT500 Outdoor • Detachable Antennas • PoE Adapter • Power Cord • Mounting Kit • Ethernet Cable • Installation Guide	
Ordering Information	Retail Package Weight	EU: 780.5 g (27.53 oz.)
	Retail Package Dimension	324×107×86 mm 12.76×4.21×3.39 inches
	Units per Carton	20

Hardware Specs

Ordering Information	Carton Net Weight	EU: 15.6 kg (34.39 lbs)
	Carton Gross Weight	EU: 16.5 kg (36.38 lbs)
	Carton Dimension	46×33.7×45 cm 18.11×13.27×17.72 inches
Compatibility	Compatible Accessories	POE24-12W 1.0

Software Specs

Model Version	LT500 Outdoor 2.0	
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	50
	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 • Auto
	WAN Mode	• DHCP • Static IP • PPPOE
	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