

Model: M1500

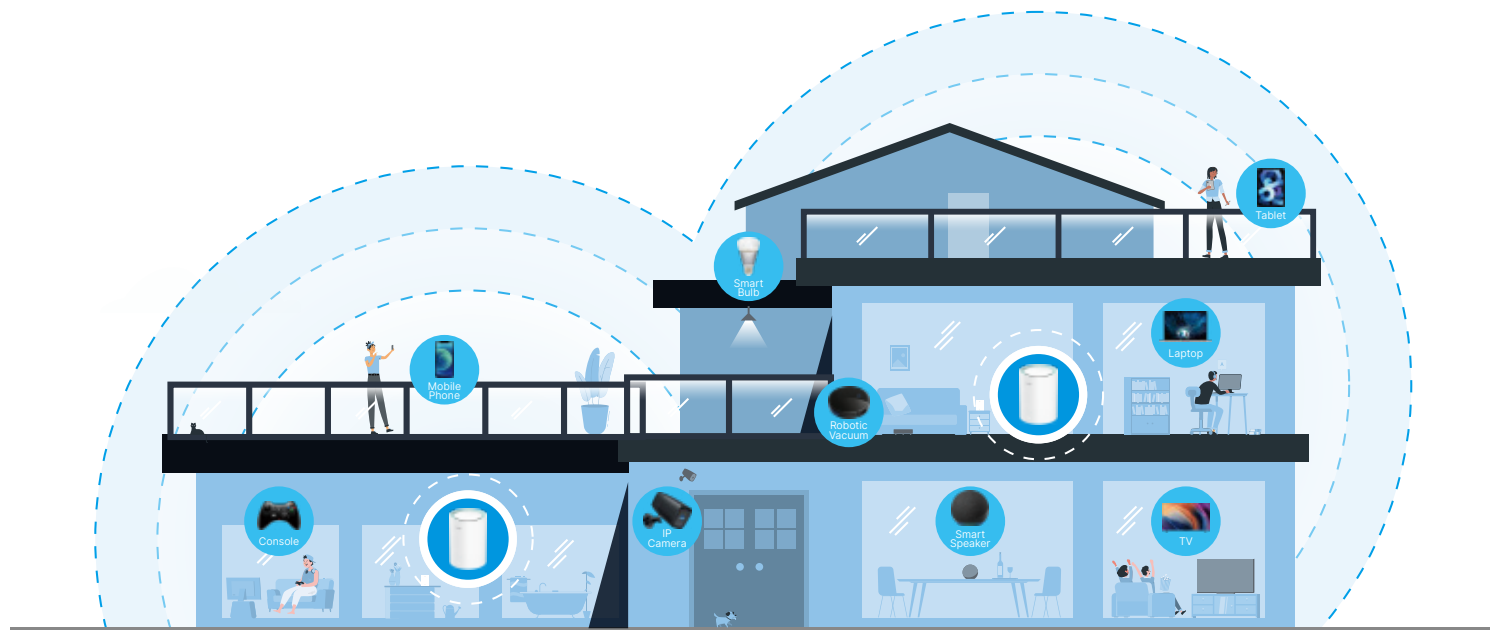
AX1500

Whole Home Mesh Wi-Fi 6 System

-  Enhanced Whole Home Coverage
-  Seamless Roaming
-  Up to 1.5 Gbps Wi-Fi 6 Speed
-  Support VPN Client
-  Latest WPA3 Wireless Encryption

[Datasheet](#)





Whole-Home Mesh Wi-Fi

Start with One, Expand as Needed

Boost weak Wi-Fi areas by adding a mesh unit to your Cudy Mesh system. It automatically integrates to create a seamless network, providing fast, stable Wi-Fi throughout your home - wherever you go.

Fast and Reliable Wi-Fi 6

Experience speeds up to 300 Mbps (2.4 GHz) and 1201 Mbps (5 GHz) with Wi-Fi 6 technology. Dual-band acceleration ensures stable connections, delivering smooth streaming, lag-free gaming, and simultaneous multi-device operations.

AX 1500 Dual-Band Wi-Fi



1201 Mbps
5 GHz

300 Mbps
2.4 GHz

38%
Faster
5 GHz

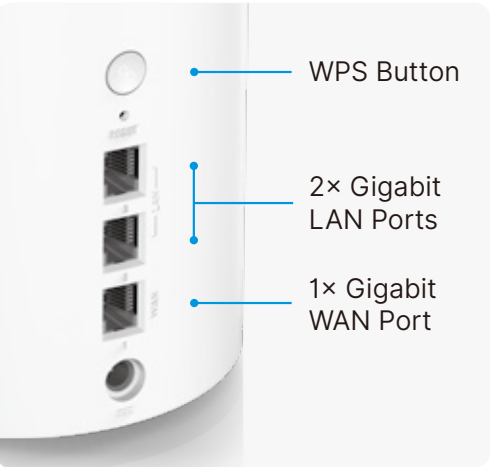
AC1200 1167 Mbps
AX1500 1501 Mbps

No More Dead Zones

No More Buffering

No More Weak Signal

No More Complicated Setup



Stable & High-Speed Wired Connectivity

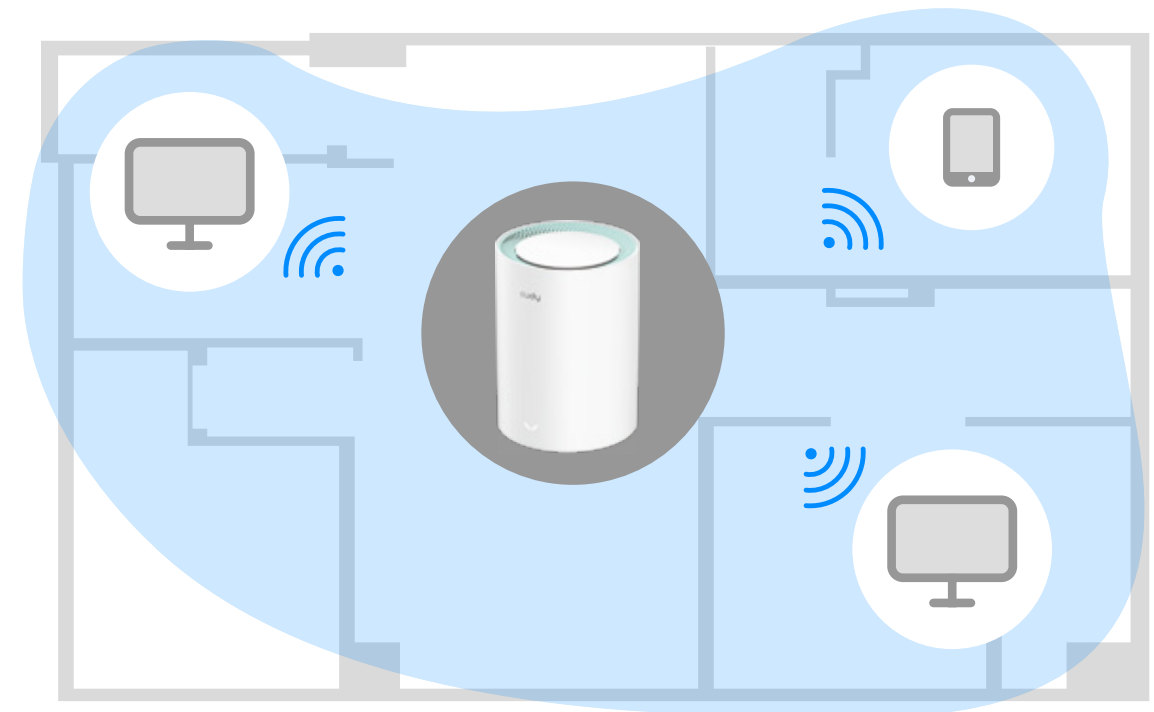
Unlock optimal performance with dedicated Gigabit Ethernet ports, delivering blazing-fast speeds for your wired devices.



1201 Mbps (5 GHz)
300 Mbps (2.4 GHz)

Up to 1.5 Gbps Wi-Fi 6
Speed: Enjoy smooth
streaming, downloading, and
gaming with extremely fast
Wi-Fi 6 Speed.

Features



Extensive Coverage: Beamforming, and two antennas
combine to deliver focused reception to devices far away.

Software



VPN

With built-in VPN, this router can easily establish a connection to VPN Server to transport all your online data and traffic, securing it with its encryption at the same time.



DDNS

By assigning a custom domain name to your home router's IP address, DDNS function will update automatically as your home IP continues to change. Compatible with 15 more DDNS providers.



WPA3

The latest and cutting-edge Wi-Fi security protocol— WPA3 provides more secure and individualized encryption in personal password safety, protecting your network from wireless hacking.



Guest Network

Guest Network separate guest access from your family network. Maintain high security across your network to help ensure your privacy is safe while online.



Highlights

A mesh Wi-Fi system ideal for large homes with 4K streaming and gaming demands, Installation is easy—set up one unit and auto-sync the rest.

- 1201 Mbps + 300 Mbps Wi-Fi
- 3× Gigabit Ethernet Ports
- Fast Roaming
- Beamforming
- Cudy Mesh and VPN Client
- Multi-Band Simultaneous Backhaul
- Cudy App, Cloud Control

Package Content

- M1500
- Power Adapter
- Ethernet Cable
- Installation Guide

Hardware Features

CPU	Chipset	RTL8197H
	CPU Details	1 GHz Single-Core CPU
Memory/Storage	Flash/ROM	16 MB (128 Mbit) NOR
	DDR/RAM	128 MB (1 Gbit) DDR3
Wireless	5 GHz Wi-Fi Speed	1201 Mbps
	2.4 GHz Wi-Fi Speed	300 Mbps
	5 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	2.4 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	Wi-Fi Antennas	2× Internal
	5 GHz Antenna Gain Max	5.56dBi
	2.4 GHz Antenna Gain Max	4.41dBi
	Beamforming	True
	Range Performance	Max: 170 m (558 ft)
		Indoor Wi-Fi range varies depending on the layout and wall materials. See Wall Performance spec for placement suggestions.
Wall Performance		Two wooden walls with thickness < 10 cm (4") One concrete wall with thickness < 20 cm (7")
Indoor Coverage Reference		2 Pack: 170 m² (1800 sq ft)
		3 Pack: 230 m² (2500 sq ft)
		Applied to wireless backhaul situation. Place in the center of each floor, with a maximum of two obstacles to each room.



Hardware Features

Interfaces	Gigabit RJ45 Ports	3
	Ethernet Notes	1× WAN port, the rest are LAN ports
	LED	System
	Physical Buttons	WPS Button
		Reset Button
Power	Power Input	DC Jack
	Power Methods	DC
	DC	12V 1A
	Power Adapter	Input: 100 ~ 240 V, 50/60 Hz AC
		Output: 12V 1A DC
	Max Power Consumption (W)	10W
Reliability	Environment	• Operating Temperature:
		0 °C ~ 40 °C (32 °F ~104 °F)
		• Storage Temperature:
		-40 °C ~ 70 °C (-40 °F ~ 158 °F)
		• Humidity: 10% ~ 90% non-condensing
Certifications	FCC, CE	
Mechanical	Installation	Desktop
	Dimension	Φ110×154.5 mm
		Φ4.33×6.08 inches

Ordering Information	Retail Package Dimension	• 1-Pack:
		145×130×265 mm
		5.71×5.12×10.43 inches
		• 2-Pack:
		330×130×265 mm
	Units per Carton	12.99×5.12×10.43 inches
		• 3-Pack:
		380×130×265 mm
		14.96×5.12×10.43 inches
		• 1-Pack: 16
	Carton Dimension	• 2-Pack: 8
		• 3-Pack: 4
		• 1-Pack: 57×56×26 cm
		22.44×22.05×10.24 inches
		• 2-Pack: 55×54.5×35.3 cm
		21.65×21.46×13.9 inches
		• 3-Pack: 53.6×40×28.7 cm
		21.1×15.75×11.3 inches



Hardware Features

Wireless	Wi-Fi Standards	Wi-Fi 6
	Max Wi-Fi Modulation	1024-QAM
	Max Capacity	128
	Recommended Client Upper Limit	60
	Max Wi-Fi Channel Width	80 MHz
	Wi-Fi Security	WPA/WPA2/WPA3
	Guest Network	2.4 GHz, 5 GHz
	WPS	True
General	Operation Modes	Wi-Fi Router
		Access Point
		Range Extender
		WISP
		Client
	Mesh	Cudy Mesh
	Mesh Backhaul	Wireless Backhaul
		Wired Backhaul
	Multi-Band Backhaul	True
	WAN Mode	DHCP
		Static IP
		PPPOE
		PPTP
		L2TP

General	Internet Failover Sequence	WAN
		WISP
Network	QoS	Per-User Rate Limiting
	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
	IPTV/VLAN	Bridge
		Tag VLAN
		VoIP VLAN
		IPTV VLAN
	IGMP	IGMP Proxy
		IGMP Snooping



Software Specs

Network	Forwarding	Port Forwarding
		UPnP
		DMZ
	Firewall	SPI Firewall
		Block PING
Utilities	VPN Client	PPTP
		L2TP
		Wireguard
		Manual DNS
	DNS Options	Rebind Protection
		Override Clients' DNS
	Wake on LAN	True
	Online Detection	True
Management	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

Management	Content Management	Domain Filter
		IP Filter
System	Local Control Method	Config Web Page
Dashboard		App Control
	Remote Control Method	Config Page via HTTPS
		App Control
		TR069/TR098/TR111/TR181
	Firmware Upgrade	Local Update
		App (Over the Air)
		Online Update
	Reliability	Timed Reboot
		Backup and Restore
	Diagnostic Tools	Diagnosis
		Ping
		Traceroute
		NSLookup
		System Log



Software Specs

System	Languages	• English • Portuguese • Russian• Spanish
Dashboard		• Ukrainian • French • Simplified Chinese
	Panel	• Internet Status • Mesh Status
		• Devices Management • WAN Status
		• LAN Status • WISP Status • Wi-Fi Status
		• VPN Status • DHCP Server Status
		• System Version
	Charts	• Mesh Topology
		• Internet Speed
		• WISP Speed
		• Wi-Fi Speed