Model: M3000S 1.0

AX3000 Gigabit Mesh Wi-Fi 6 System



Datasheet

Highlights

A mesh Wi-Fi 6 system with four antennas to provide a super-fast network for large homes with 4K streaming and gaming demands. Suitable for internet access up to 1000 Mbps.

- 1.2 GHz Dual-Core CPU
- 4-Stream Dual-Band Wi-Fi 6
- 2402 Mbps + 574 Mbps Wi-Fi
- 2× Gigabit Ethernet Ports
- Cudy Mesh, VPN Server and Client
- Multi-Band Simultaneous Backhaul
- Cudy App, Cloud Control

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

- M3000S
- Power Adapter
- Ethernet Cable
- Installation Guide

Hardware Specs

Model Version	M3000S 1.0	
CPU	CPU Details	1.2 GHz Dual-Core
Memory/Storage	Flash/ROM	128 MB (1 Gbit) NAND
	DDR/RAM	128 MB (1 Gbit) DDR3
Wireless	5 GHz Wi-Fi Speed	2402 Mbps
	2.4 GHz Wi-Fi Speed	574 Mbps
	5 GHz Wi-Fi Streams	2 Spatial Streams
	2.4 GHz Wi-Fi Streams	2 Spatial Streams
	Wi-Fi Antennas	2× Internal
	FEM or PA/LNA	5 GHz: 2× Internal, 2.4 GHz: 2× Internal
	Beamforming	True

Wireless	Range Performance	Max: 200 m (656 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") or two concrete walls with thickness < 10 cm (4")
	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 three obstacles to each room.
Interfaces	Gigabit RJ45 Ports	2

Hardware Specs

Interfaces	Ethernet Notes	Port 1 is the WAN port by default. All ports are LAN ports in Mesh satellite mode
Buttons and LEDs	LED	System
	Physical Buttons	WPS Button, Reset Button
Power	Power Input Type	DC Jack
	Power Methods	DC
	Power Input	12V⎓1A
	Max Power Consumption (W)	7.1W
	Idle Power Consumption (W)	3.2W
	Power Adapter In the Box	Input: 100-240V~, 50/60Hz Output: 12V⎓1A

Reliability	Environment	• Operating Temperature: 0 ℃ ~ 40 ℃ (32 ℉ ~104 ℉) • Storage Temperature: -40 ℃ ~ 70 ℃ (-40 ℉ ~ 158 ℉) • Humidity: 10% ~ 90% non-condensing • Storage Humidity: 5% ~ 95% non-condensing
Certifications	FCC, CE	
Mechanical	Installation	Desktop
	Dimension	85×85×86.5 mm 3.35×3.35×3.41 inches
	Product Weight	303.4 g (10.7 oz.)
Package Content	• M3000S • Power Adapter • Ethernet Cable • Installation Guide	
Ordering Information	Retail Package Weight	2-Pack | EU: 647.3 g (22.83 oz.)

Hardware Specs

Ordering Information	Retail Package Dimension	• 1-Pack: 94×90×147 mm 3.7×3.54×5.79 inches • 3-Pack: 274×143×90 mm 10.79×5.63×3.54 inches • 2-Pack: 184×143×90 mm 7.24×5.63×3.54 inches
	Units per Carton	• 1-Pack: 40 • 3-Pack: 10 • 2-Pack: 20
	Carton Dimension	• 1-Pack: 50×38.9×32.1 cm 19.69×15.31×12.64 inches • 3-Pack: 47.8×29.7×31 cm 18.82×11.69×12.2 inches • 2-Pack: 47.8×39.1×31 cm 18.82×15.39×12.2 inches
	Carton Gross Weight	2-Pack | EU: 13.8 kg (30.42 lbs)
	Carton Net Weight	2-Pack | EU: 13.0 kg (28.66 lbs)

Software Specs

Model Version	M3000S 1.0	
Wireless	Wi-Fi Standards	Wi-Fi 6
	Max Wi-Fi Modulation	1024-QAM
	Wi-Fi Efficiency	• OFDMA • MU-MIMO • BSS Color
	Max Capacity	128
	Recommended Client Upper Limit	50
	Wi-Fi Channel Width	Auto/20/40/80/160 MHz
	Wi-Fi Security	WPA/WPA2/WPA3
	Guest Network	2.4 GHz, 5 GHz
	Separate Client	True
	WPS	True

Software Specs

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
Network	QoS	• Per-User Rate Limiting • Guest Network Rate LImiting
	DHCP	• Address Reservation • DHCP Client List • Server
	IP Versions	IPv4/IPv6

Network	IPv6 Protocols	• Relay • Dynamic (SLAAC/DHCPv6) • Static (Fixed IP) • Passthrough • 464XLAT • MAP-E • DS-Lite
	Multicast	True
	IPTV/VLAN	• Bridge • Tag VLAN • VoIP VLAN • IPTV VLAN
	TTL Customization	• Extend • Spoof • Custom
	IGMP	• IGMP Proxy • IGMP Snooping
	Forwarding	• Port Forwarding • Port Triggering • UPnP • DMZ

Software Specs

Network	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 • PPTP • L2TP • IPsec
	VPN Client	• WireGuard • OpenVPN • PPTP • L2TP • IPsec

Utilities	DNS Options	• DNS over TLS • Manual DNS • Rebind Protection • Override Clients' DNS
	DNS over TLS Providers	• Cloudflare • Google • Quad9 • Custom
	Wake on LAN	True
	Online Detection	True
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

Software Specs

Management	Content Management	• Domain Filtering • IP Filtering
System	LED Control	True
	Local Control Method	• Config Web Page • App Control
	Remote Control Method	• Config Page via HTTPS • App Control • TR069/TR098/TR111/TR143/TR181/TR369
	Firmware Upgrade	• Local Update • App (Over the Air) • Online Update
	Reliability	• Timed Reboot • Backup and Restore
	Diagnostic Tools	• Diagnosis • Ping • Traceroute • NSLookup • System Log

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

Software Specs

Dashboard	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