Model: M3000

AX3000

2.5G Whole-Whole Mesh Wi-Fi 6 System

- 1.3 GHz Dual-Core Cortex-A53 Processor
- Super-Fast AX3000 Wi-Fi 6 Technology
- Multi-Gig 2.5 Gbps Ethernet Port
- Highest 160 MHz Bandwidth in Wi-Fi 6
- Reduce Latency with DL/UL OFDMA, DL/UL MU-MIMO
- TR069/TR098/TR181/TR111

Datasheet



Compatible with
802.11ax/ac/a/b/g/n
Wi-Fi 6

WHOLE HOME
MESH

cudy

Wi-Fi6

Next Generation WiFi 6

1.3GHz

Dual Core Processor

MediaTek Filogic 820

160 MHz Bandwidth

Highest Bandwidth in Wi-Fi 6
Unleashes Multi-Gig Wi-Fi

AX3000

Extremely-Fast WiFi

2.5Gbps

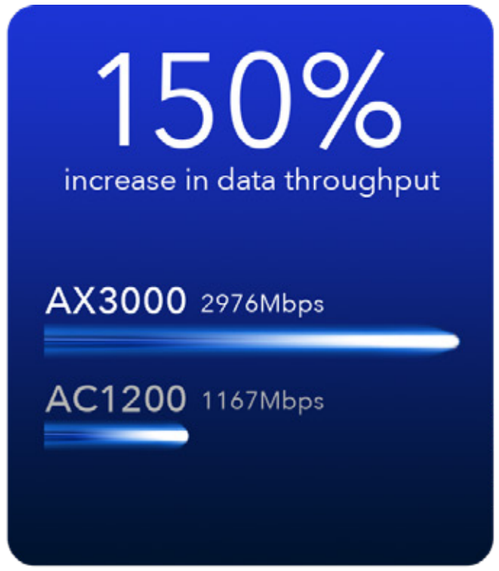
WAN Port

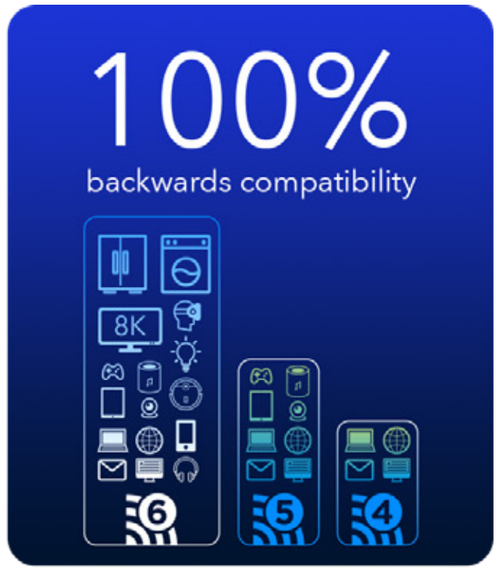
MU-MIMO

Dual Band

Wi-Fi 6 - Super-Fast Wi-Fi for More Devices

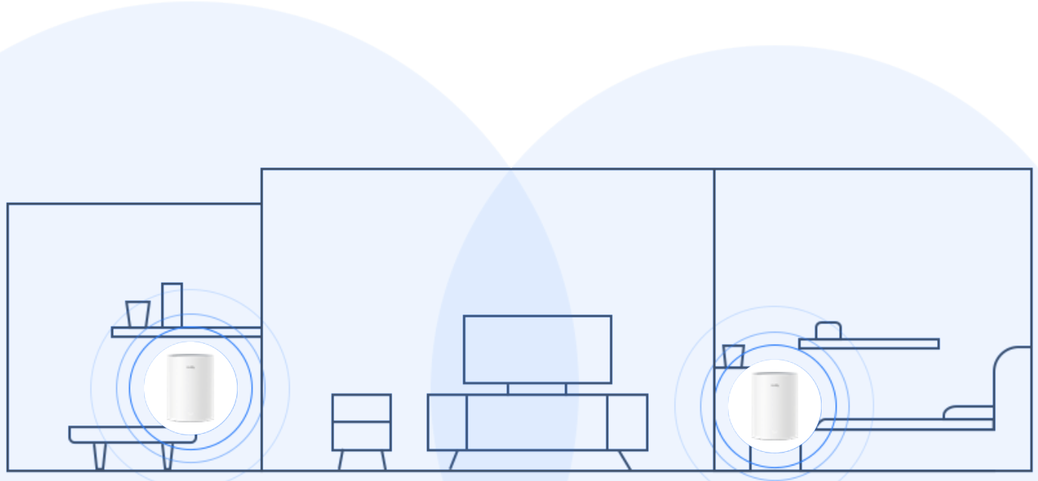




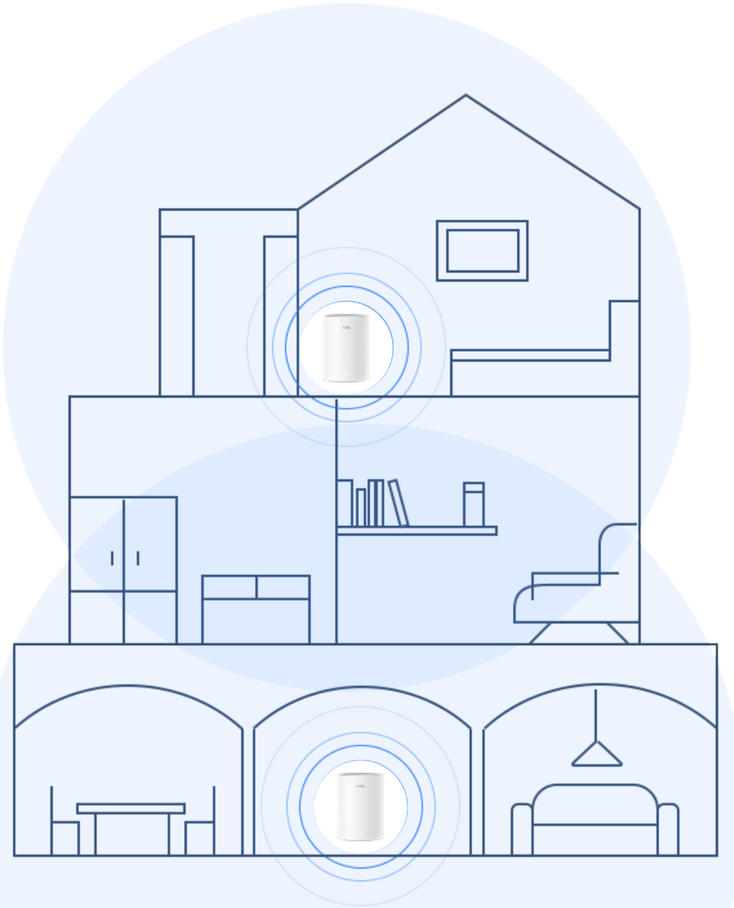


Whole Home Mesh，Dead Zone Killer

With Cudy Mesh Wi-Fi 6 System, you'll enjoy advanced whole home WiFi designed to deliver smooth video streaming and fast online gaming to more devices at the same time. Experience the next generation of WiFi 6, perfect for medium to large homes. Want more coverage? Simply add another one.



Apartment



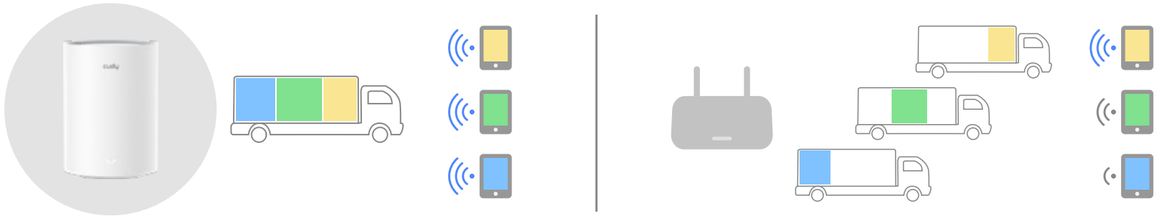
Multi-Story Home

Up to 3 Gbps Wi-Fi 6 Speed: Enjoy smooth streaming, downloading, and gaming with extremely fast Wi-Fi 6 Speed.



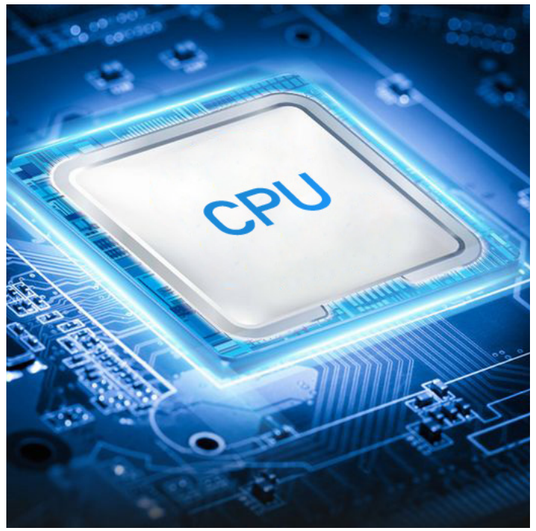
2.5 Gbps WAN Port
Featured with 10/100/1000Mbps ports, greatly expands your network capacity, enabling instant large files transferring.

2402 Mbps (5 GHz)
574 Mbps (2.4 GHz)



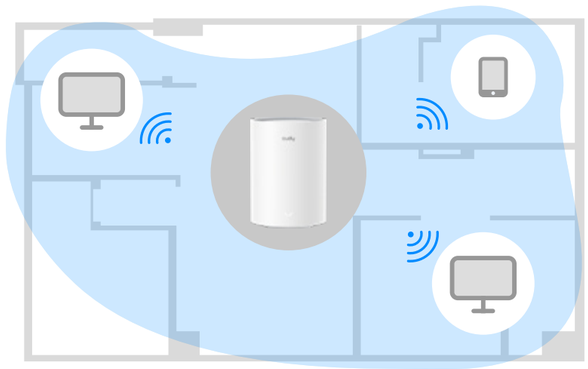
More Devices: Wi-Fi 6 uses OFDMA to improve capacity and efficiency of your network, so more devices can connect without slowing down your Wi-Fi.

Features

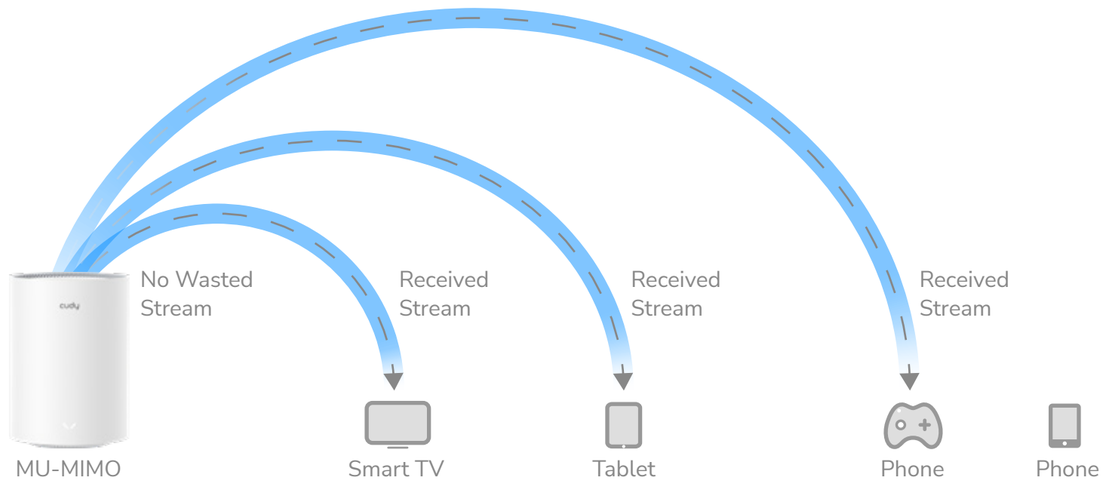


Powerful Dual-Core Processor

Powerful Dual-Core CPU ensures smooth 4K UHD streaming to Smart TVs, mobile devices and gaming consoles without buffering.



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



MU-MIMO

Transfer at the asme time

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 WiFi 6 system with five antennas to provide a super-fast network for large homes with 4K streaming and gaming demands. Suitable for internet access up to 2.5 Gbps.

- 1.3 GHz Dual-Core CPU
- 4-Stream Dual-Band Wi-Fi 6
- 2402 Mbps + 574 Mbps Wi-Fi
- 200 Connected Devices
- Fast Roaming
- Cudy Mesh, VPN Server and Client
- Multi-Band Simultaneous Backhaul
- Cudy App, Cloud Control

Package Content

- M3000
- Power Adapter
- Ethernet Cable
- Installation Guide

Hardware Features

CPU	CPU Details	1.3 GHz Dual-Core, ARM Cortex-A53
Memory/Storage	Flash/ROM	128 MB (1 Gbit) NAND
	DDR/RAM	256 MB (2 Gbit) DDR3
Wireless	5 GHz Wi-Fi Speed	2402 Mbps
	2.4 GHz Wi-Fi Speed	574 Mbps
	5 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	2.4 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	Wi-Fi Antennas	5× Internal
	5 GHz Antenna Gain Max	5.1dBi
	2.4 GHz Antenna Gain Max	4.2dBi
	FEM or PA/LNA	5 GHz: 2× Internal
		2.4 GHz: 2× Internal
	Beamforming	True
	Range Performance	Max: 220 m (722 ft)
		Indoor WiFi 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")
		or two concrete walls with thickness < 10 cm (4")

Hardware Features

Wireless	Indoor Coverage Reference	2 Pack: 200 m² (2150 sq ft)
		3 Pack: 270 m² (2900 sq ft)
		Applied to wireless backhaul situation. Place in the center of each floor, with a maximum of three obstacles to each room.
Interfaces	2.5G RJ45 Ports	1
	Gigabit RJ45 Ports	1
	Ethernet Notes	The 2.5G port is the WAN port, the Gigabit port is LAN port
	LED	System
		Speed/Link/ACT of Ethernet Port
	Physical Buttons	WPS Button
		Reset Button
	Power Input	DC Jack
Power	Power Methods	DC
	DC	12V 1A
	Power Adapter	Input: 100 ~ 240 V, 50/60 Hz AC
		Output: 12V 1A DC
	Max Power Consumption (W)	11.5W
	Idle Power Consumption (W)	4.2W

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
		Storage Humidity: 5% ~ 95% non-condensing
Certifications	FCC, CE	
Mechanical	Installation	Desktop
	Dimension	Φ110×154.5 mm
		Φ4.33×6.08 inches
	Product Weight	360 g (12.7 oz.)
Ordering Information	Retail Package Weight	1-Pack	EU / US: 680 g (23.99 oz.)
		2-Pack	EU / US: 1370 g (48.33 oz.)
	Retail Package Dimension	1-Pack:
		145×130×265 mm
		5.71×5.12×10.43 inches
		2-Pack:
		330×130×265 mm
		12.99×5.12×10.43 inches
		3-Pack:
		380×130×265 mm
		14.96×5.12×10.43 inches

Hardware Features

Ordering Information	Units per Carton	1-Pack: 16
		2-Pack: 8
		3-Pack: 4
	Carton Dimension	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
	Carton Gross Weight	1-Pack | EU / US: 12.2 kg (26.9 lbs)
		2-Pack | EU / US: 12.3 kg (27.12 lbs)
	Carton Net Weight	1-Pack | EU / US: 10.9 kg (24.03 lbs)
		2-Pack | EU / US: 11.0 kg (24.25 lbs)

Software Features

Wireless	Wi-Fi Standards	Wi-Fi 6
	Max Wi-Fi Modulation	1024-QAM
	Wi-Fi Efficiency	OFDMA
		MU-MIMO
		BSS Color
	Max Capacity	512
	Recommended Client Upper Limit	200
	Max Wi-Fi Channel Width	160 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

Software Features

General	WAN Mode	DHCP
		Static IP
		PPPOE
		PPTP
		L2TP
	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

Network	TTL Customization	Extend
		Spoof
		Custom
	IGMP	IGMP Proxy
		IGMP Snooping
	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

Software Features

Utilities	VPN Server	WireGuard
		OpenVPN
		IPsec
		Zerotier
		PPTP
		L2TP
	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
	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
	Content Management	Domain Filter
		IP Filter
System	LED Control	True
	Local Control Method	Config Web Page
		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

Software Features

System	Diagnostic Tools	Diagnosis
		Ping
		Traceroute
		NSLookup
		System Log
	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
Dashboard	Panel	Internet Status
		Mesh Status
		Devices Management
		WAN Status
		LAN Status
		WISP Status
		Wi-Fi Status
		VPN Status
		DHCP Server Status
		System Version

Dashboard	Charts	Mesh Topology
		Internet Speed
		WISP Speed
		Wi-Fi Speed