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

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

WHOLE HOME
MESH

Datasheet

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

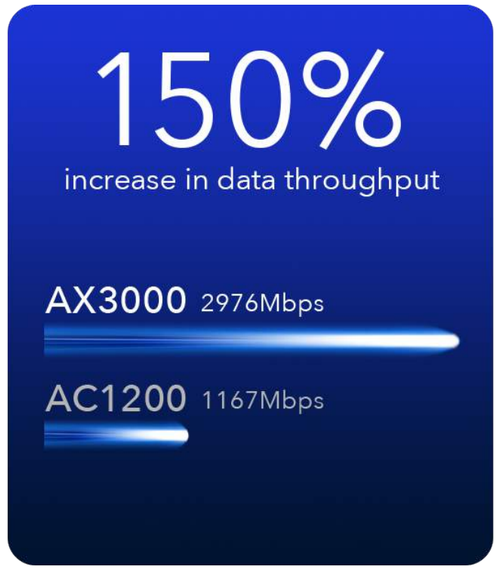
WAN Port

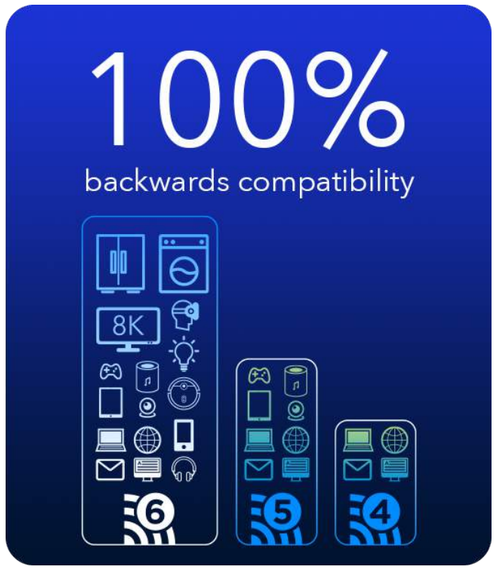
MU-MIMO

Dual Band

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

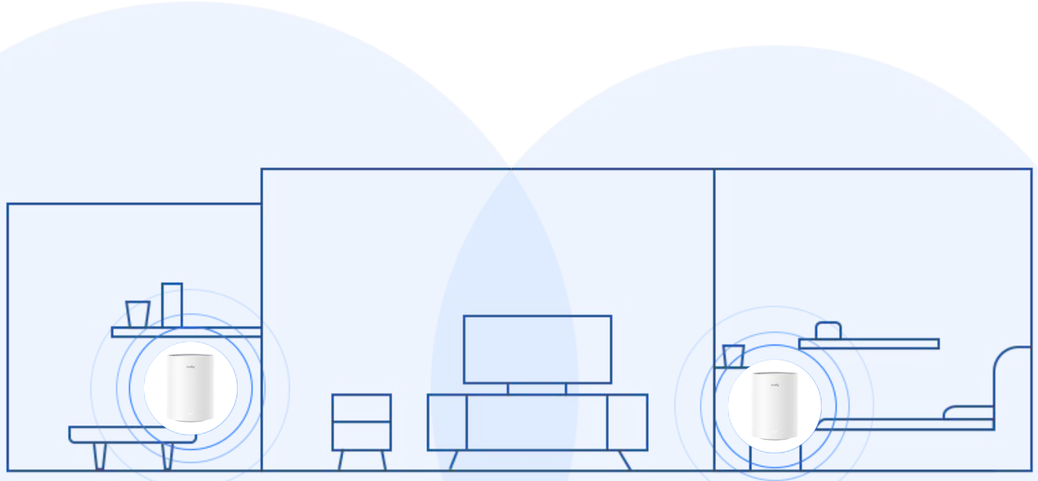




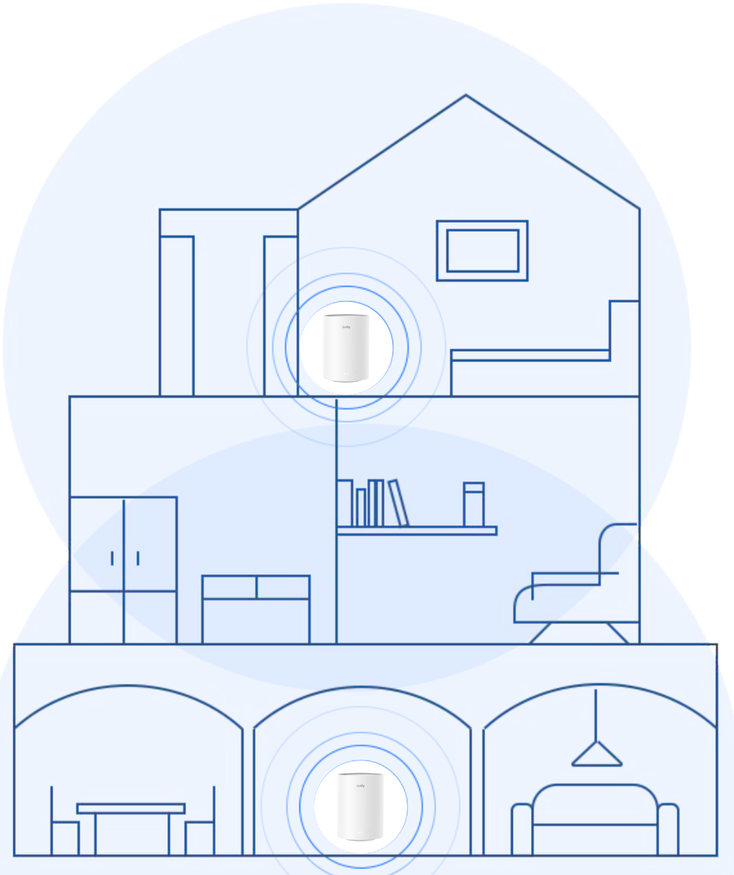


Whole Home Mesh，Dead Zone Killer

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



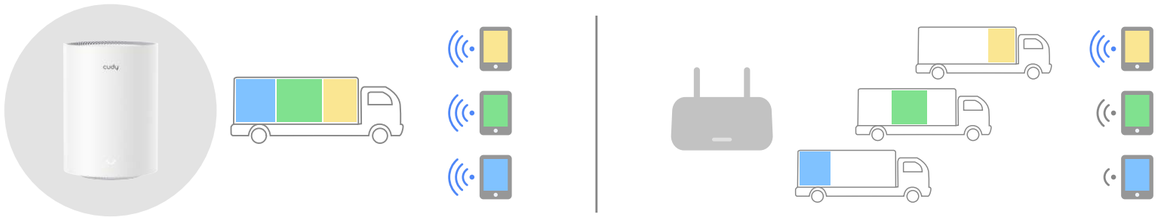
Multi-Story Home

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



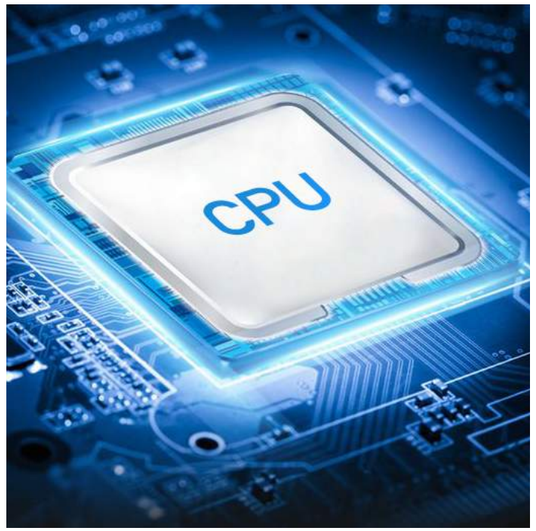
Featured with 10/100/1000Mbps ports, greatly expands your network capacity, enabling instant large files transferring.

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



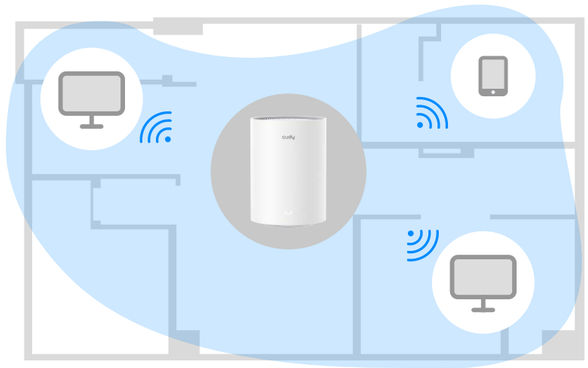
More Devices: Wi-Fi 6 uses OFDMA to improve capacity and efficiency of your network, so more devices can connect without slowing down your Wi-Fi.

Features

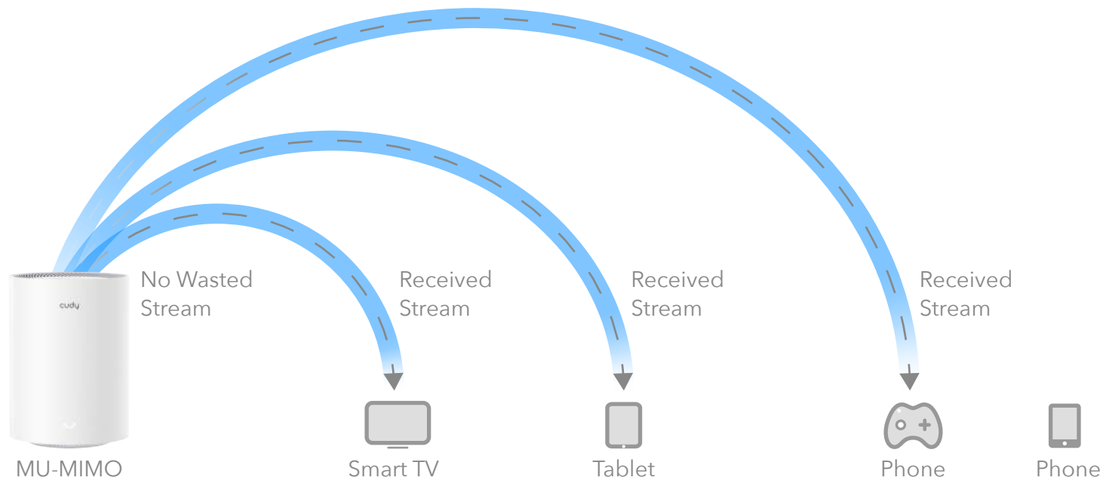


Powerful Dual-Core Processor

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.

Specifications

- Up to 3Gbps Wi-Fi 6 Speed: Enjoy smooth streaming, downloading, and gaming with extremely fast Wi-Fi 6 Speed.
- Powerful Dual-Core Processor: Powerful 1.3 GHz ARM Cortex-A53 CPU ensures smooth 4K UHD streaming to Smart TVs, mobile devices and gaming consoles without buffering.
- Improved Capacity: Wi-Fi 6 uses OFDMA to improve capacity and efficiency of your network, so more devices can connect without slowing down your Wi-Fi.
- Extensive Coverage: Beamforming and five antennas combine to deliver focused reception to devices far away.
- Pre-installed 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.
- Dynamic DNS: DDNS function solves the issue of changing residential IP addresses. 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.
- Works with Existing Wi-Fi Devices: Backward compatible earlier generation WiFi standards.

Hardware Features

Processor	1.3 GHz Dual-Core Cortex-A53 Processor
Antennas	5× Internal Omni-Directional Antennas
Interfaces	1× 2.5Gbps WAN Port
	1× 10/100/1000 Mbps LAN Port
Buttons	Pair Button, Reset Button
External Power Supply	12 V / 1A

Wireless Features

Wireless Standards	IEEE 802.11ax/ac/n/a 5 GHz
	IEEE 802.11ax/n/b/g 2.4 GHz
Wireless Bandwidth	20/40/80/160MHz
Signal Rate	2402 Mbps (5 GHz), 574 Mbps (2.4 GHz)
	Compatible with 802.11a/b/g/n/ac/ax Wi-Fi standards
Transmit Power	CE: <20 dBm (2.4 GHz), <23 dBm (5.15 GHz~5.25 GHz)
	FCC: <30 dBm (2.4 GHz & 5.15 GHz~5.825 GHz)
Wireless Functions	Enable/Disable Wireless Radio, WMM
Wireless Security	WPA-PSK, WPA2-PSK, WPA3,
	WPA-PSK/WPA2-PSK, WPA2-PSK/WPA3
Other Functions	DL/UL OFDMA, DL/UL MU-MIMO, Beamforming, Mesh

Software Features

WAN Type	Dynamic IP/Static IP/PPPoE
DHCP	Server, DHCP Client List, Address Reservation
Dynamic DNS	Compatible with 15 more DDNS providers.
Guest Network	2.4 GHz guest network × 1
	5 GHz guest network × 1
NAT	Port Forwarding, Port Triggering, UPnP, DMZ
VPN Server & Client	Zerotier/Wireguard/OpenVPN/IPSec/L2TP/PPTP
Working Modes	Mesh/Wi-Fi Router/AP/RE/WISP
CWMP Protocols	TR069 / TR098 / TR111 / TR181
ACS Server Compatibility	GenieACS, OpenACS
Management	Parental Control
	Guest Network
TTL	Extend/Spoof/Custom
DNS	Cloudflare/Google/Quad9/Custom
Internet Protocols	IPv4 / IPv6
IPv6	Relay
	Dynamic(SLAAC/DHCPv6)
	Static (Fixed IP)
	Passthrough
	MAP-E (Dual-stack)
	DS-Lite (Dual-stack)

Others

Package Content	AX3000 Wi-Fi 6 Mesh Router Unit(s)
	Power Adapter(s)
	RJ45 Ethernet Cable(s)
	Quick Installation Guide
Environmental Requirements	Operating Temperature: 0 °C ~ 40 °C (32 °F ~104 °F)
	Storage Temperature: -40 °C ~ 70 °C (-40 °F ~ 158 °F)
	Operating Humidity: 10% ~ 90% non-condensing
	Storage Humidity: 5% ~ 90% non-condensing
System Requirements	Windows, macOS, Android, iOS, or other OS with networking capability
	Firefox, Chrome, Safari, Edge, or other up-to-date web browsers
	Cable/DSL/ONT modem or other internet source devices
	Internet subscription with ISP or carriers

Versions

Pack	M3000 3-Pack, Suitable for ~600 m^2 coverage demand
	M3000 2-Pack, Suitable for ~400 m^2 coverage demand
	M3000 1-Pack
	Actual coverage varies depending on the environmetal factors
	especially the made of the walls, the layout of the house. Please
	contact local resellers or distributors for avaialble versions.