



Model: M1800

AX1800

Whole Home Mesh WiFi System

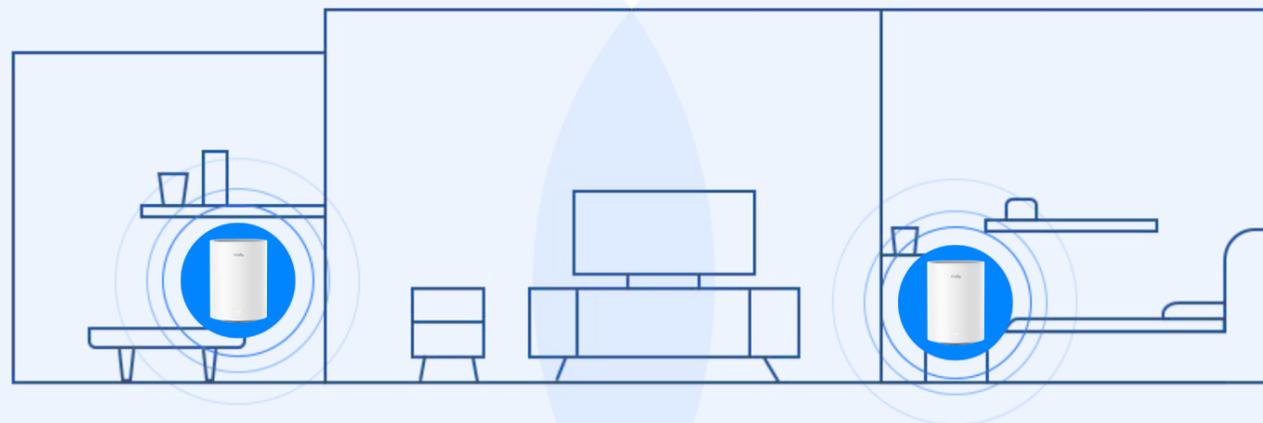
-  Enhanced Whole Home Coverage
-  Seamless Roaming
-  Up to 1.8 Gbps Wi-Fi 6 Speed
-  VPN Server and VPN Client
-  Latest WPA3 Wireless Encryption

[Datasheet](#)

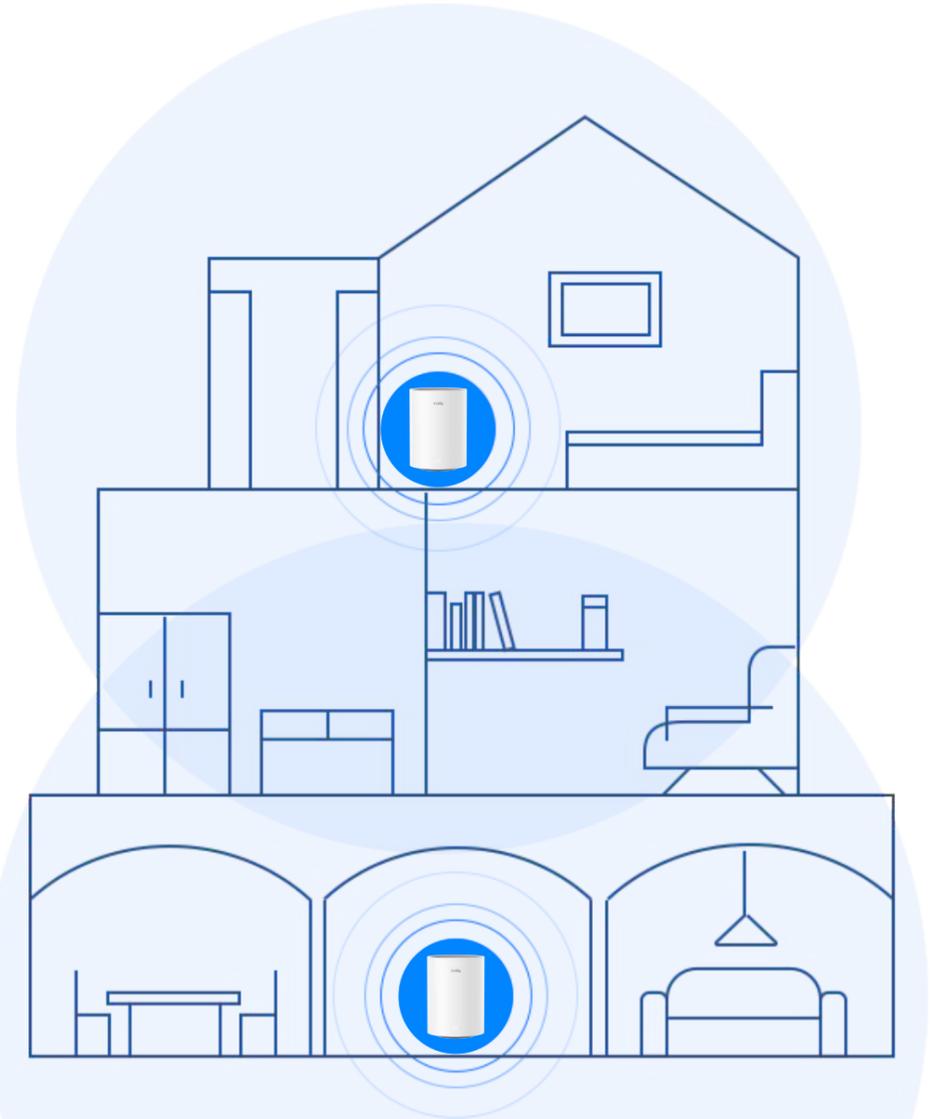


Whole Home Mesh, Dead Zone Killer

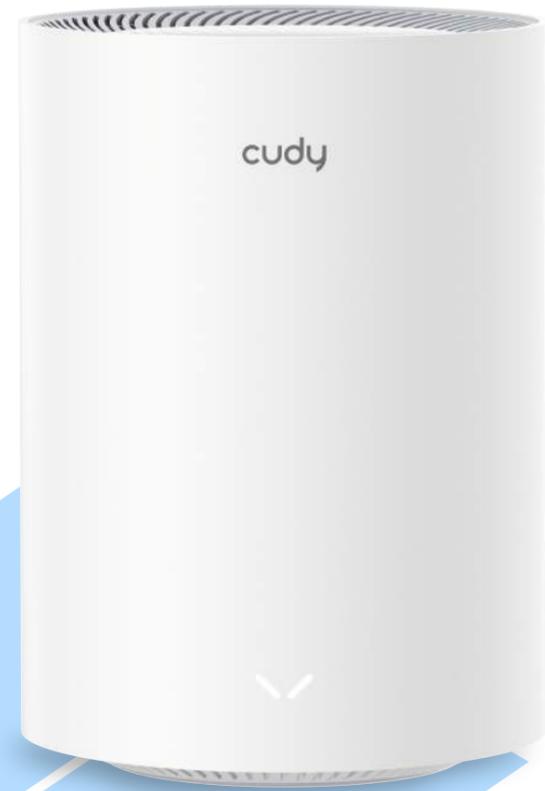
With Cudy Mesh Wi-Fi 6 System, you'll enjoy advanced whole home WiFi designed to deliver smooth video streaming and fast online gaming to more devices at the same time. Experience the next generation of WiFi 6, perfect for medium to large homes. Want more coverage? Simply add another one.



Apartment



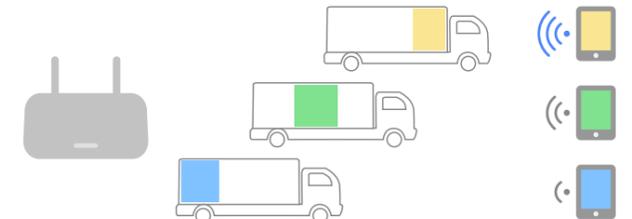
Multi-Story Home



1201 Mbps (5 GHz)

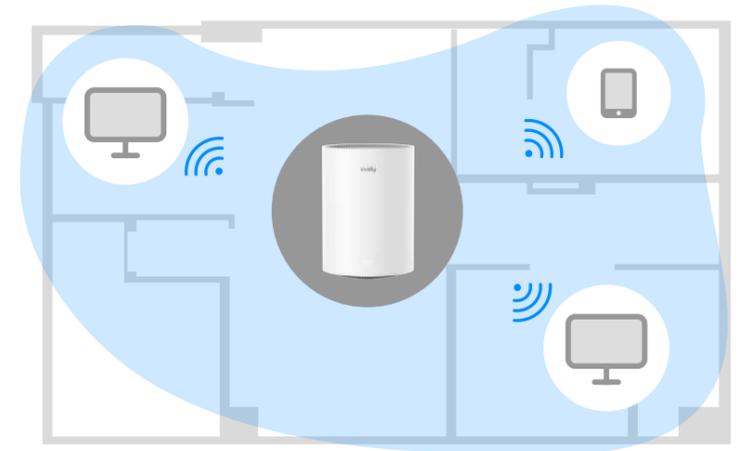
574 Mbps (2.4 GHz)

Up to 1.8Gbps Wi-Fi 6 Speed: Enjoy smooth streaming, downloading, and gaming with extremely fast Wi-Fi 6 Speed.



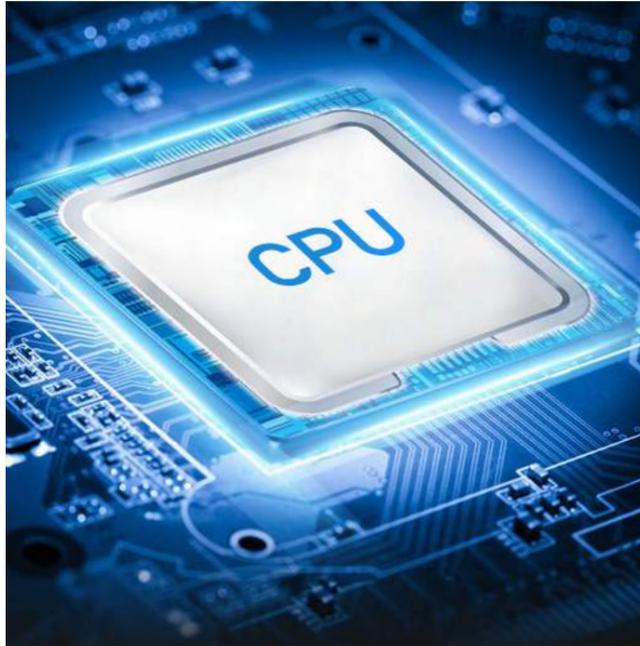
More Devices: Wi-Fi 6 uses OFDMA to improve capacity and efficiency of your network, so more devices can connect without slowing down your Wi-Fi.

Features



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

Hardware



Powerful Dual-Core Processor

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

128 Mbit
Flash

+

2 Gbit
DDR

128 Mbit Flash + 2 Gbit DDR

128 Mbit flash design makes the router stable and reliable, ensuring the continuous operation of the system, and provides more space for the file system.

Built-in 2 Gbit DDR makes the product run faster and provides more possibilities for function expansion.



Gigabit Ports

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

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.



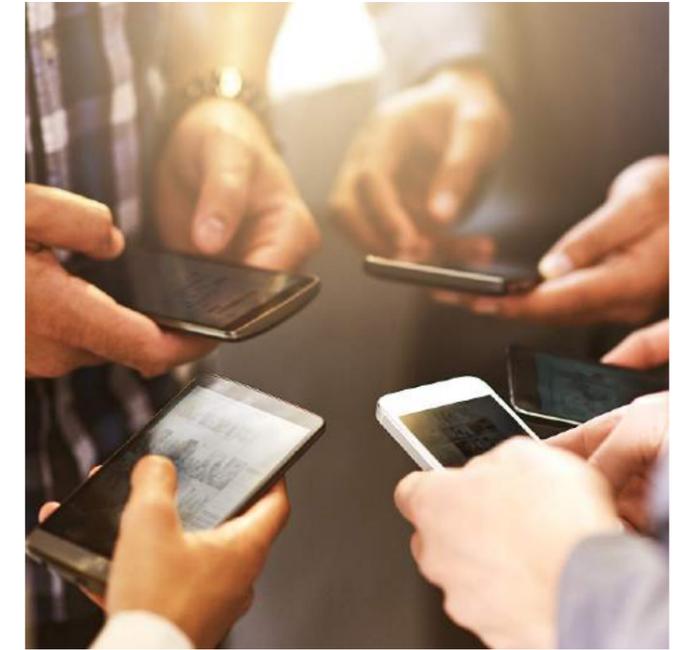
DDNS

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 1.8 Gbps Wi-Fi 6 Speed: Enjoy smooth streaming, downloading, and gaming with extremely fast Wi-Fi 6 Speed.
- Powerful Dual-Core Processor: Powerful Dual-Core 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 four 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.
- WPA3 Security: 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.
- Works with Existing Wi-Fi Devices: Backward compatible with Wi-Fi 5 (802.11ac) and earlier generation WiFi standards.

Hardware Features

Processor	Dual-Core Processor
Flash	128 Mbit (16 MB)
DDR	2 Gbit (256 MB)
Antennas	4× Internal Omni-Directional Antennas
Interfaces	1× 10/100/1000 Mbps 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
Frequency	5 GHz, 2.4 GHz
Signal Rate	1201 Mbps (5 GHz), 574 Mbps (2.4 GHz) Compatible with 802.11a/b/g/n/ac/ax Wi-Fi standards
Transmit Power	CE: < 20dBm (2.4 GHz), <23 dBm (5.15 GHz~5.25 GHz) FCC: < 30dBm (2.4 GHz & 5.15 GHz~5.825 GHz)
Wireless Modes	Enable/Disable Wireless Radio, WMM
Wireless Encryptions	WPA-PSK, WPA2-PSK, WPA3, WPA-PSK/WPA2-PSK, WPA2-PSK/WPA3

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 Sever & Client	PPTP/L2TP/OpenVPN/WireGuard/IPSec/Zerotier
Working Modes	Mesh/Wi-Fi Router/AP/RE/WISP
CWMP Protocol	TR069 / TR098 / TR111 / TR181
ACS Server Compatibility	GenieACS, OpenACS
Management	Access Control, Local Management, Remote Management, Wake on LAN
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	AC1200 Mesh Wi-Fi Unit(s)
Content	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	M1800 3-Pack, Suitable for ~500 m ² coverage demand M1800 2-Pack, Suitable for ~360 m ² coverage demand M1800 1-Pack Actual coverage varies depending on the environmental factors especially the made of the walls, the layout of the house. Please contact local resellers or distributors for available versions.
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