WHOLE HOME
MESH

Model: M1800

AX1800

Whole Home Mesh WiFi System

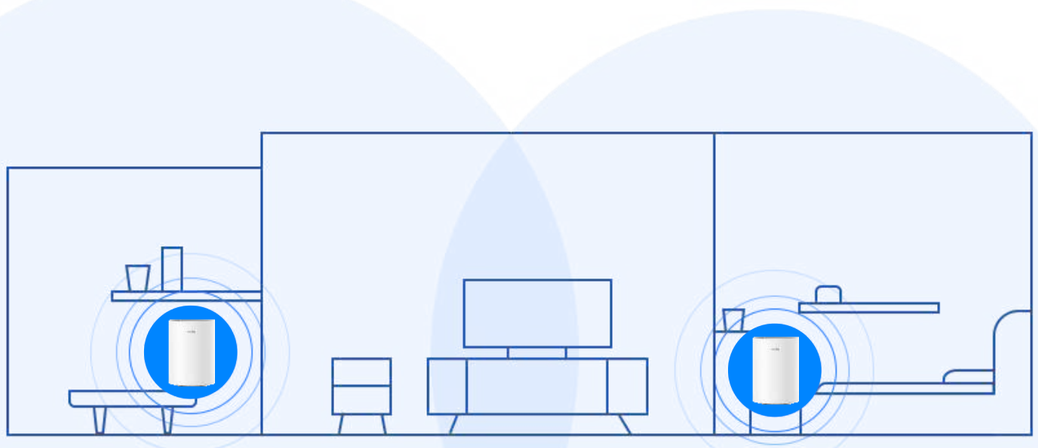


- Enhanced Whole Home Coverage
- Seamless Roaming
- Up to 1.8Gbps Wi-Fi 6 Speed
- VPN Server and VPN Client Support
- Latest and cutting-edge WPA3 Security

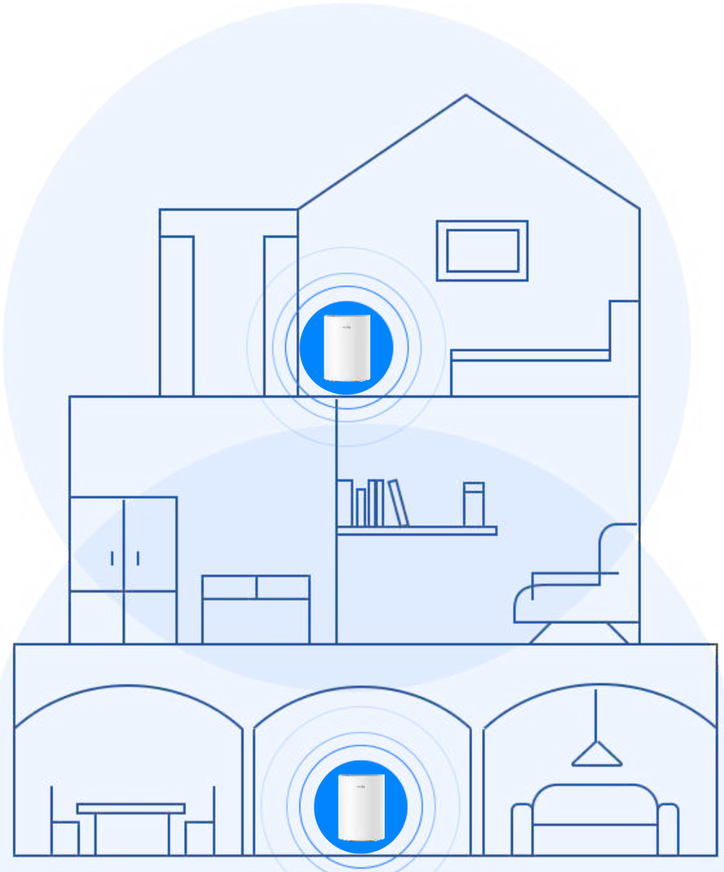
Datasheet

Whole Home Mesh, Dead Zone Killer

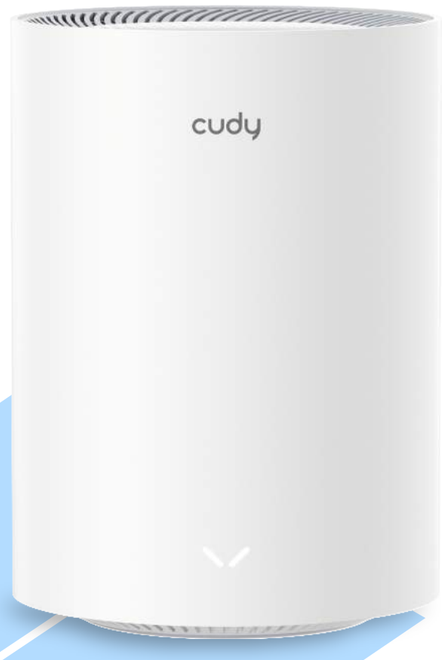
With Cudy Mesh Wi-Fi 6 System, you'll enjoy advanced whole home WiFi designed to deliver smooth video streaming and fast online gaming to more devices at the same time. Experience the next generation of WiFi 6, perfect for medium to large homes up to 4,000 sq.ft. Want more coverage? Simply add another one.



Apartment



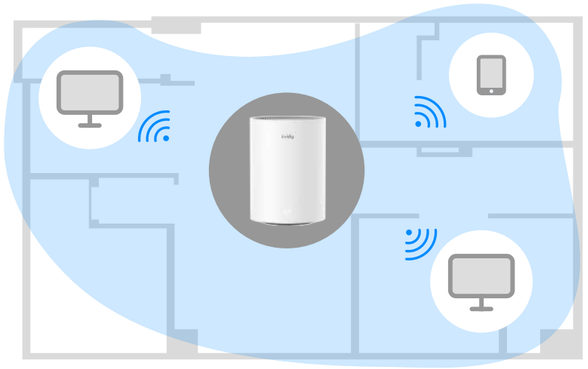
Multi-Story Home



1201 Mbps (5 GHz)

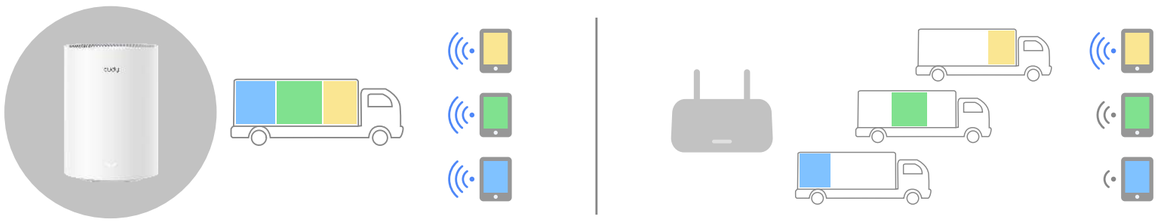
574 Mbps (2.4 GHz)

Features



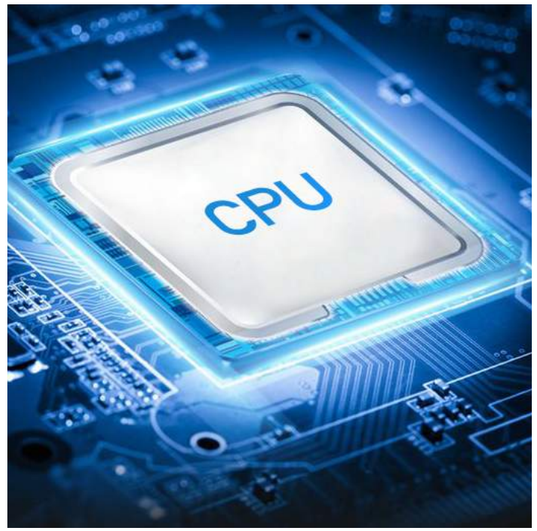
Extensive Coverage: Beamforming, and four antennas combine to deliver focused reception to devices far away.

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.

Hardware



Powerful Dual-Core Processor

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



128Mbit Flash

+

2Gbit DDR

128Mbit Flash + 2Gbit DDR

128Mbit 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 2Gbit DDR makes the product run faster and provides more possibilities for function expansion.

Gigabit Ports

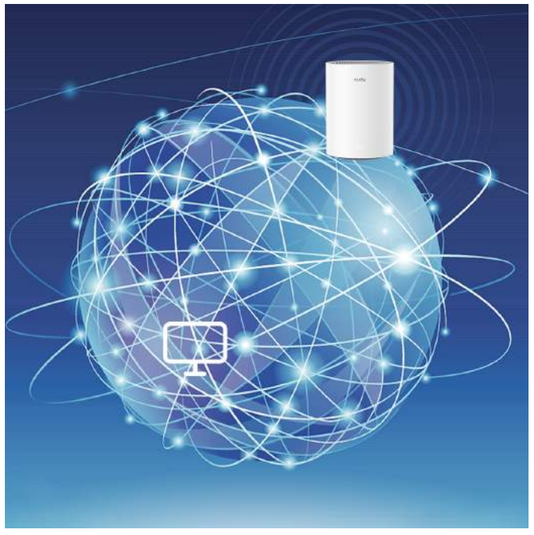
Featured with 10/100/1000Mbps ports, greatly expands your network capacity, enabling instant large files transferring.

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

Specifications

- Up to 1.8Gbps 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, independent FEM, 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 proto-col—WPA3 provides more secure and individualized encryption in per-sonal 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 Processors
Flash	128Mbit (16MB)
DDR	2Gbit (256MB)
Antenna	4× Internal Omni-Directional Antennas
Interface	1× 10/100/1000 Mbps WAN Port
	1× 10/100/1000 Mbps LAN Ports
Button	Pair Button, Reset Button
External Power Supply	12 V / 1.5 A

Wireless Features

Wireless Standards	IEEE 802.11ax/ac/n/a 5GHz
	IEEE 802.11ax/n/b/g 2.4GHz
Frequency	5GHz, 2.4GHz
Signal Rate	1201 Mbps (5GHz), 574 Mbps (2.4GHz)
	Compatible with 802.11a/b/g/n/ac/ax Wi-Fi standards
Transmit Power	CE: <20dBm(2.4GHz), <23dBm(5.15GHz~5.25GHz)
	FCC:<30dBm(2.4GHz & 5.15GHz~5.825GHz)
Wireless Modes	Enable/Disable Wireless Radio, WMM
	WEP, WPA/WPA2,
Wireless Functions	WPA-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 Mode	Wi-Fi Router/ Wireless Access Point/Wi-Fi Extender/ 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/NextDNS/Custom
VLAN	Tag VLAN / IPTV
Internet Protocols	IPv4 / IPv6
IPv6	Relay
	Dynamic(SLAAC/DHCPv6)
	Static (Fixed IP)
	Passthrough
	MAP-E (Dual-stack)
	DS-Lite (Dual-stack)

Others

Package Contents	2-Pack AX1800 Wi-Fi 6 Mesh Router
	Power Adapter
	RJ45 Ethernet Cable
	Quick Installation Guide
System Requirements	Microsoft Windows 98SE/NT/2000/XP/Vista™/7/8/8.1/10/11,
	MAC OS, NetWare, UNIX or Linux
	Internet Explorer 11, Firefox 12.0, Chrome 20.0, Safari 4.0, or other
	Java-enabled browser
	Cable or DSL Modem
	Subscription with an internet service provider (for internet access)