cudy

WHOLE HOME
MESH

Model: **M1200**

AC1200

Whole Home Mesh
Wi-Fi System

- Enhanced Whole Home Coverage
- Seamless Roaming
- Up to 1.2 Gbps Wi-Fi Speed
- VPN Server and VPN Client

Datasheet

Whole-Home Mesh, Dead Zone Killer

With stronger and more efficient signals enhanced by Cudy Whole Home Mesh technology, M1200 boosts broader whole home Wi-Fi coverage with great performance. Wireless connections and optional Ethernet backhaul work together to link mesh units, providing even faster network speeds and truly seamless coverage. Want more coverage? Simply add another one.
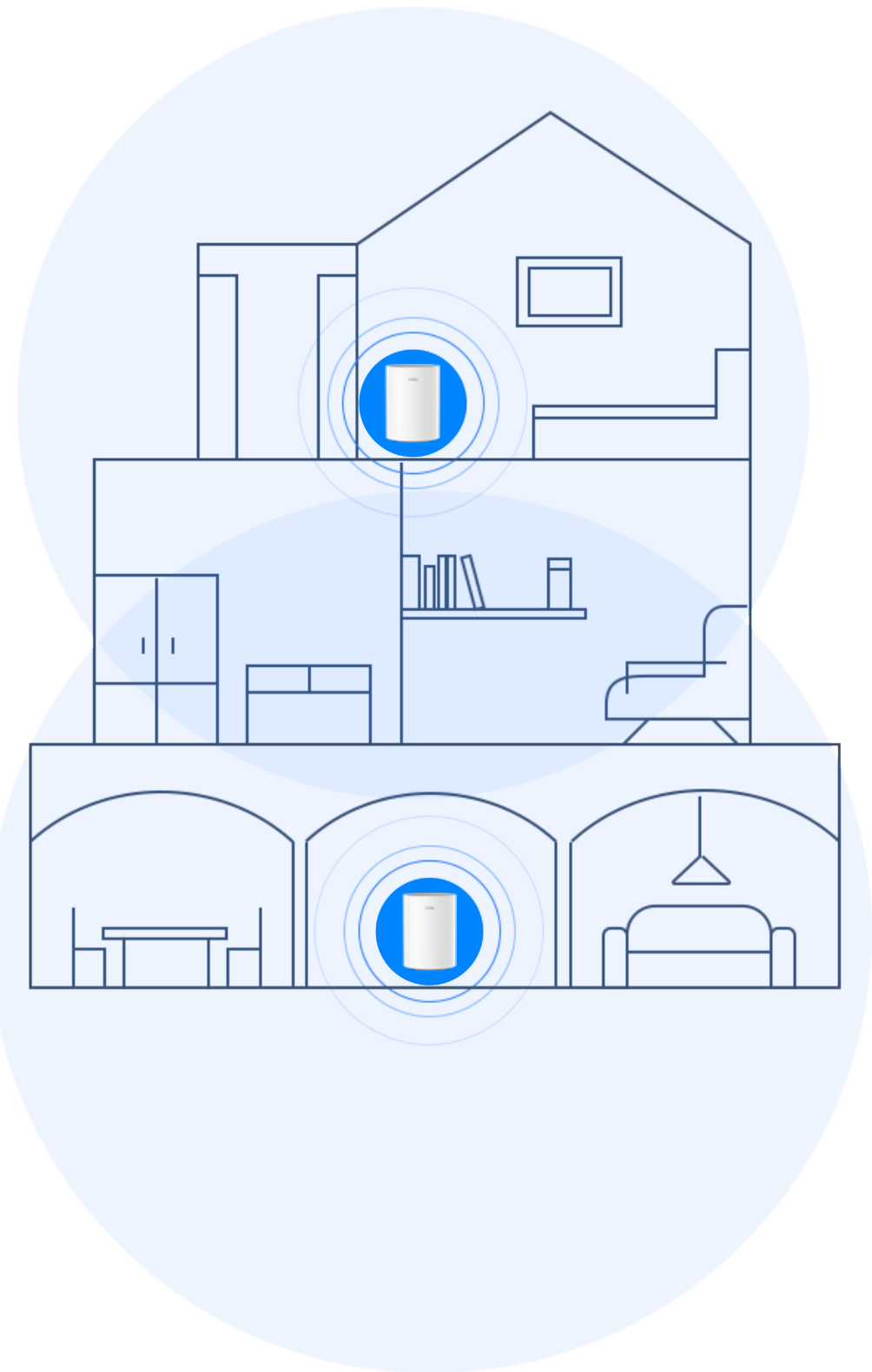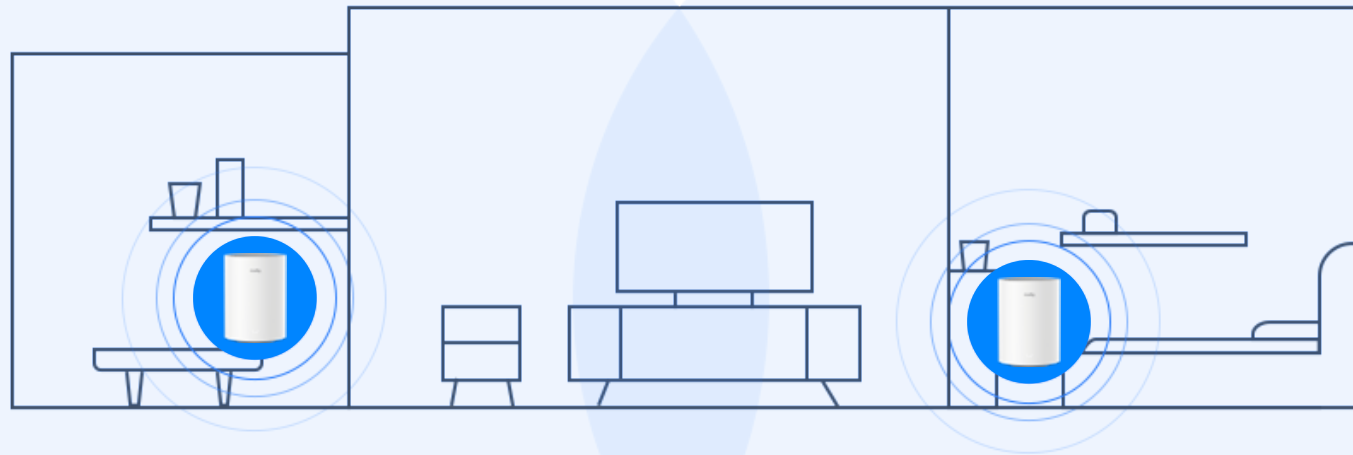
Software

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.

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 system built to provide a reliable network for large homes, Installation is easy—set up one unit and auto-sync the rest. Suitable for 100 Mbps internet access.

- 4-Stream Dual-Band Wi-Fi 5
- 867 Mbps + 300 Mbps Wi-Fi
- 2× Fast Ethernet Ports
- Fast Roaming
- MU-MIMO, Beamforming
- Cudy Mesh, VPN Server and Client
- Multi-Band Simultaneous Backhaul
- Cudy App, Cloud Control

Package Content

- M1200
- Power Adapter
- Ethernet Cable
- Installation Guide

Hardware Features

CPU	CPU Details	580 MHz Single-Core, MIPS24KEC
Memory/Storage	Flash/ROM	16 MB (128 Mbit) NOR
	DDR/RAM	128 MB (1 Gbit) DDR3
Wireless	5 GHz Wi-Fi Speed	867 Mbps
	2.4 GHz Wi-Fi Speed	300 Mbps
	5 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	2.4 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	Wi-Fi Antennas	4× Internal
	5 GHz Antenna Gain Max	3.75 dBi
	2.4 GHz Antenna Gain Max	2.35 dBi
	Beamforming	True
	Range Performance	Max: 170 m (558 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")
	Indoor Coverage Reference	2 Pack: 160 m² (1700 sq ft)
		3 Pack: 220 m² (2300 sq ft)
		Applied to wireless backhaul situation. Place in the center of each floor, with a maximum of two obstacles to each room.

Hardware Features

Interfaces	10/100 Mbps RJ45 Ports	2
	Ethernet Notes	Port 1 is the WAN port by default. All ports are LAN ports in Mesh satellite mode
	LED	System
	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
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	2-Pack | EU: 586 g (20.67 oz.)
		3-Pack | EU: 879 g (31.01 oz.)
		1-Pack | EU: 293 g (10.34 oz.)

Ordering Information	Retail Package Weight	2-Pack | EU: 1156 g (40.78 oz.)
		3-Pack | EU: 1658 g (58.48 oz.)
		1-Pack | EU: 661 g (23.32 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
	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

Hardware Features

Ordering Information	Carton Gross Weight	2-Pack | EU: 10.8 kg (23.81 lbs)
		3-Pack | EU: 7.6 kg (16.76 lbs)
		1-Pack | EU: 12.0 kg (26.46 lbs)
	Carton Net Weight	2-Pack | EU: 9.4 kg (20.72 lbs)
		3-Pack | EU: 6.6 kg (14.55 lbs)
		1-Pack | EU: 10.6 kg (23.37 lbs)

Software Features

Wireless	Wi-Fi Standards	Wi-Fi 5
	Max Wi-Fi Modulation	256-QAM
	Wi-Fi Efficiency	MU-MIMO
	Wi-Fi Efficiency Note	MU-MIMO available on 5 GHz
	Max Capacity	128
	Recommended Client Upper Limit	50
	Max Wi-Fi Channel Width	80 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
	WAN Mode	DHCP
		Static IP
		PPPOE
		PPTP
		L2TP

Software Features

General	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
	TTL Customization	Extend
		Spoof
		Custom

Network	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
Utilities	VPN Server	WireGuard
		OpenVPN
		IPsec
		Zerotier
		PPTP
		L2TP

Software Features

Utilities	VPN Client	WireGuard	
		OpenVPN	
		IPsec	
		Zerotier	
		PPTP	
		L2TP	
	VPN Performance	WireGuard Client (UL/DL): 49 / 43 Mbps	
		WireGuard Server (UL/DL): 43.6 / 48 Mbps	
	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	

Management	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	
	Diagnostic Tools	Diagnosis	
		Ping	
		Traceroute	
		NSLookup	
		System Log	

Software Features

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
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