Datasheet for:

Model: **M3000**   2.5G Whole-Whole Mesh Wi-Fi 6 System   Page 2 - 13

Model: **WR3600H**   2.5G Wi-Fi 7 RouterĀ   Page 14 - 19
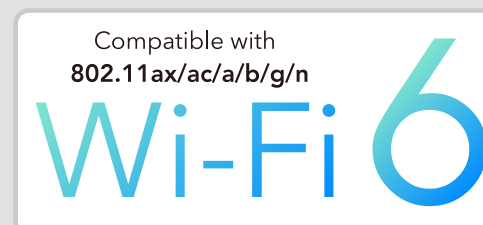
cudy

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

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
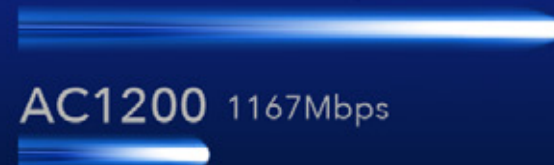
4X
more capacity

150%
increase in data throughput

AX3000   2976Mbps

AC1200   1167Mbps
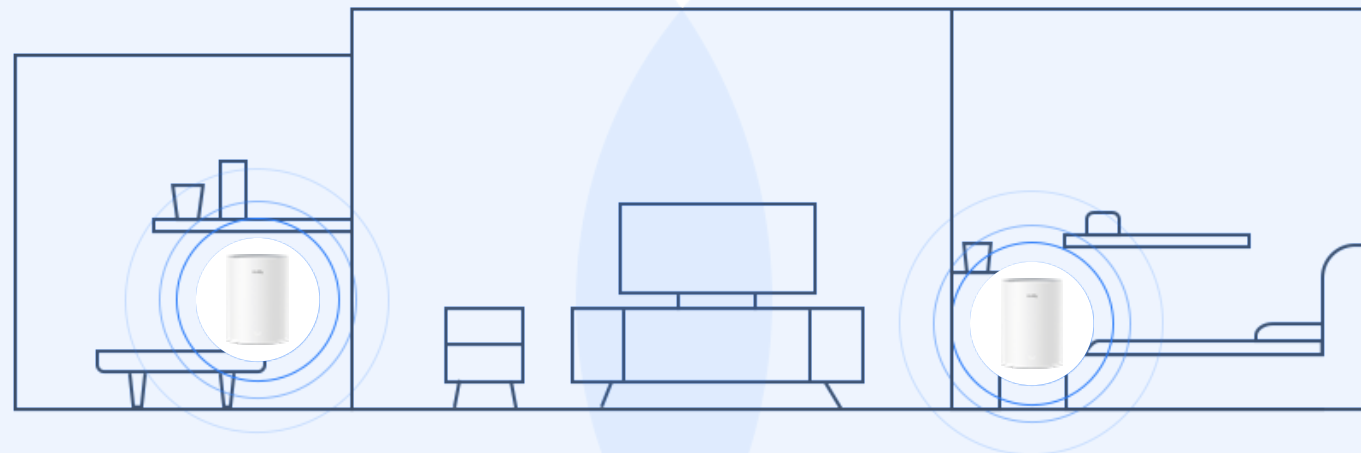
100%
backwards compatibility

8K

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

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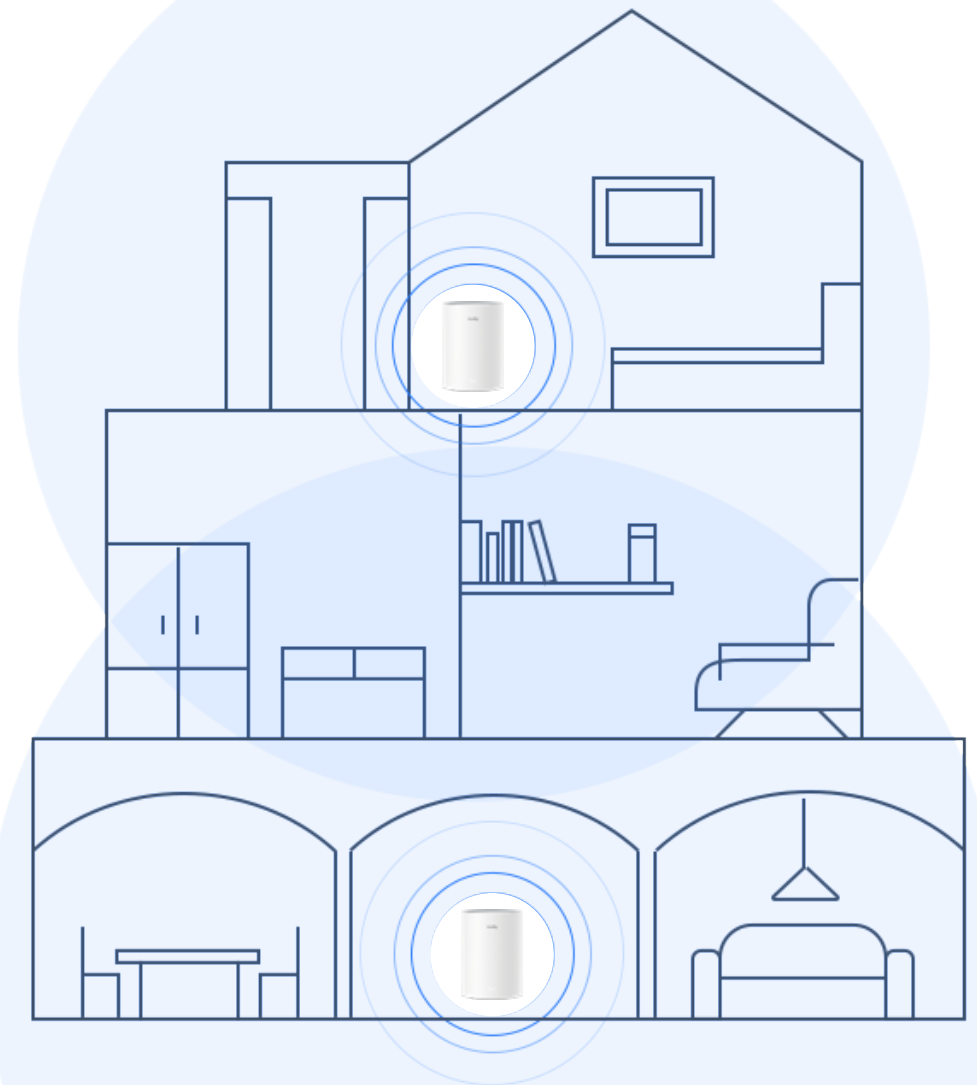
Up to 3 Gbps Wi-Fi 6 Speed: Enjoy smooth streaming, downloading, and gaming with extremely fast Wi-Fi 6 Speed.

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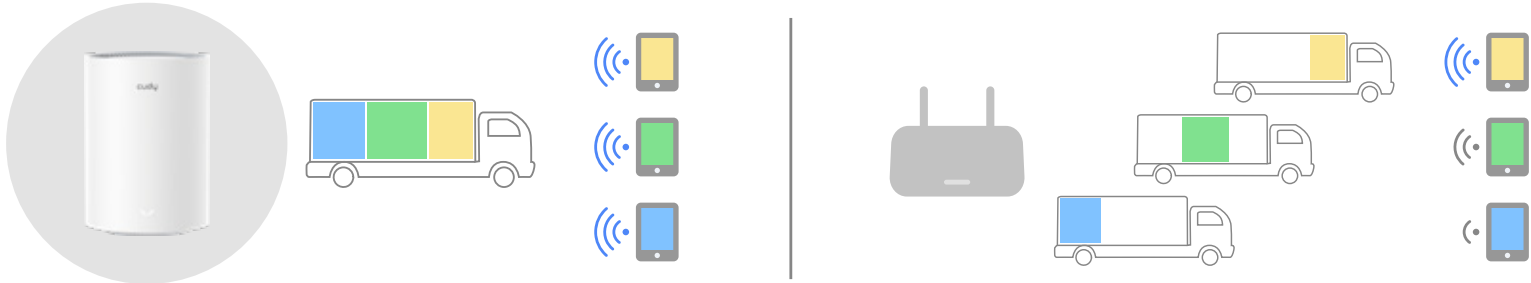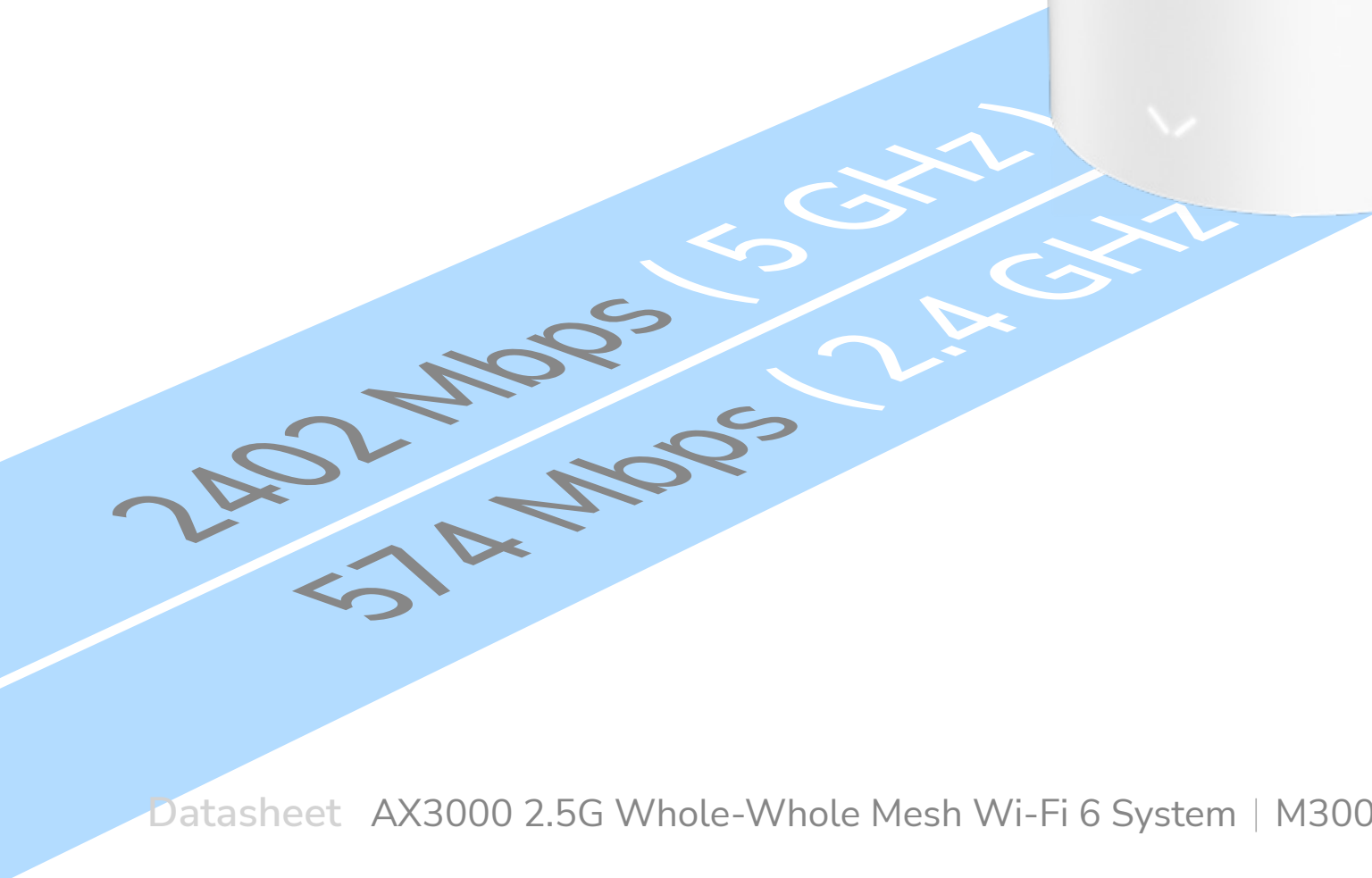
More Devices: Wi-Fi 6 uses OFDMA to improve capacity and efficiency of your network, so more devices can connect without slowing down your Wi-Fi.

Features
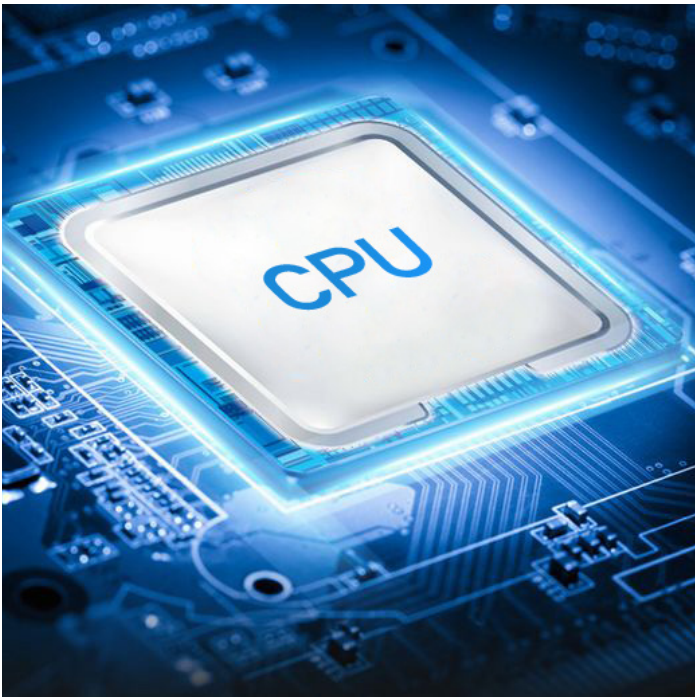
Powerful Dual-Core Processor

Powerful Dual-Core CPU ensures smooth 4K UHD streaming to Smart TVs, mobile devices and gaming consoles without buffering.
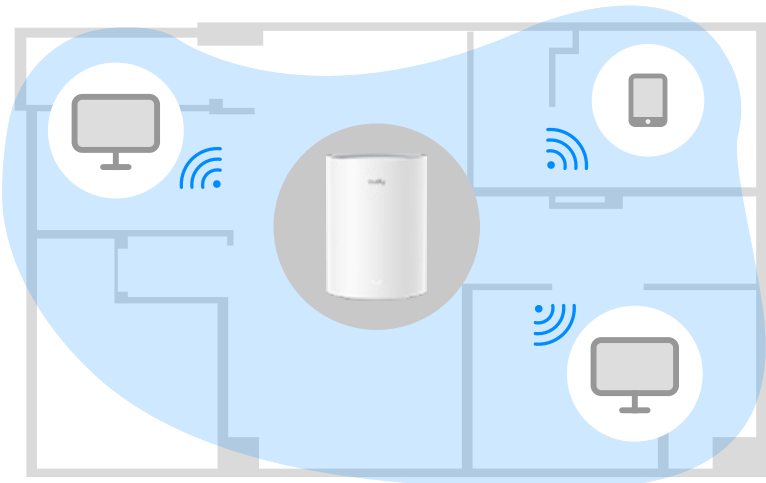
Extensive Coverage: Beamforming, and five antennas combine to deliver focused reception to devices far away.

MU-MIMO | No Wasted Stream | Received Stream | Received Stream | Received Stream

Smart TV | Tablet | Phone | Phone
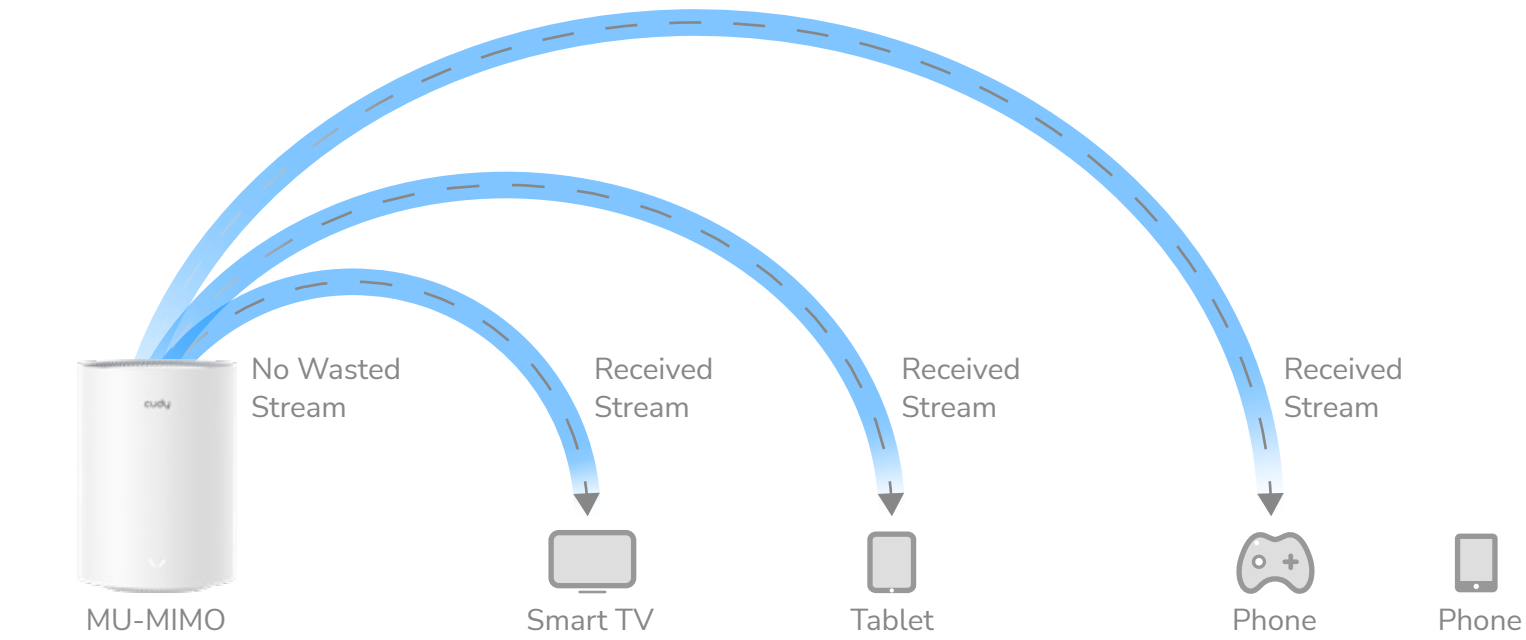
MU-MIMO   Transfer at the asme time

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

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Model: WR3600H

BE3600

2.5G Wi-Fi 7 RouterĀ

Extremely High Throughput
Wi-Fi 7

cudy   Download on the App Store   GET IT ON Google Play
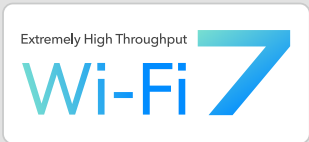
Easy Setup with
Cudy App

cudy

Datasheet

Highlights

A dual-band WiFi 7 router with an aggregate of 3.6 Gbps speed, one 2.5G WAN, and four Gigabit LAN, catering to multi-Gig internet access, gaming, and entertainment scenarios.

- 4-Stream Dual-Band Wi-Fi 7
- 2880 Mbps + 688 Mbps Wi-Fi
- 1× 2.5GbE and 4× GbE
- Covers 120 m² (1,300 ft²)
- WireGuard, OpenVPN, ZeroTier, etc
- Cudy App, Cloud Control

Package Content

- WR3600H
- Power Adapter
- Ethernet Cable
- Installation Guide

Hardware Features

CPU	Chipset	BCM6764
	CPU Details	2.0 GHz Quad-Core, ARM Cortex-A7
Memory /Storage	Flash/ROM	128 MB (1 Gbit) NAND
	DDR/RAM	512 MB (4 Gbit) DDR3L
Wireless	5 GHz Wi-Fi Speed	2880 Mbps
	2.4 GHz Wi-Fi Speed	688 Mbps
	5 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	2.4 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	Wi-Fi Antennas	4x Fixed
	5 GHz Antenna Gain Max	5.5dBi
	2.4 GHz Antenna Gain Max	5.4dBi
	FEM or PA/LNA	5 GHz: 2× External
		2.4 GHz: 2× External
	Beamforming	True
	Range Performance	Max: 240 m (787 ft)
		Indoor WiFi range varies depending on the layout and wall materials.
	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 Specs

Interfaces	2.5G RJ45 Ports	1
	Gigabit RJ45 Ports	4
	Ethernet Notes	The 2.5G port is WAN port,
		the Gigabit ports are LAN ports
	LED	Power
		Internet
		WAN
		LAN
		2.4 GHz Wi-Fi
		5 GHz Wi-Fi
	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)	10W
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

Mechanical	Installation	Desktop
		Wall-mount
	Dimension	183.3×109×38 mm
		7.22×4.29×1.5 inches

Software Specs

*Available with later firmware upgrade.

Wireless	Wi-Fi Standards	Wi-Fi 7
	Max Wi-Fi Modulation	4K-QAM
	Wi-Fi Efficiency	MLO
		MRU
		Puncturing
		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*

Software Specs

General		
	Mesh*	Cudy Mesh
	Mesh Backhaul*	Wireless Backhaul
		Wired Backhaul
	Multi-Band Backhaul*	true
	WAN Mode	DHCP
		Static IP
		PPPOE
	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)
		Staic (Fixed IP)
		Passthrough
		464XLAT
		MAP-E
		DS-Lite
	IPTV/VLAN	Bridge
		Tag 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

Utilities		
	VPN Server	WireGuard
		OpenVPN
		IPsec
		Zerotier
		PPTP
		L2TP

Software Specs

Utilities	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	Intenent On/Off
		VPN On/Off
		Online Time Schedule
		Device Rename
	Content Management	Domain Filter
		IP Filter

System	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
	Languages	• English • Bengali • Catalan • Czech
		• German • Greek • Spanish • French
		• Hebrew • Italian • Croatian • Hungarian
		• Khmer • Korean • Dutch • Japanese
		• Russian • Slovak • Swedish • Romanian
		• Turkish • Vietnamese • Thai • Ukrainian
		• Polish • Norwegian • Portuguese
		• Simplified Chinese • Traditional Chinese

Software Specs

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