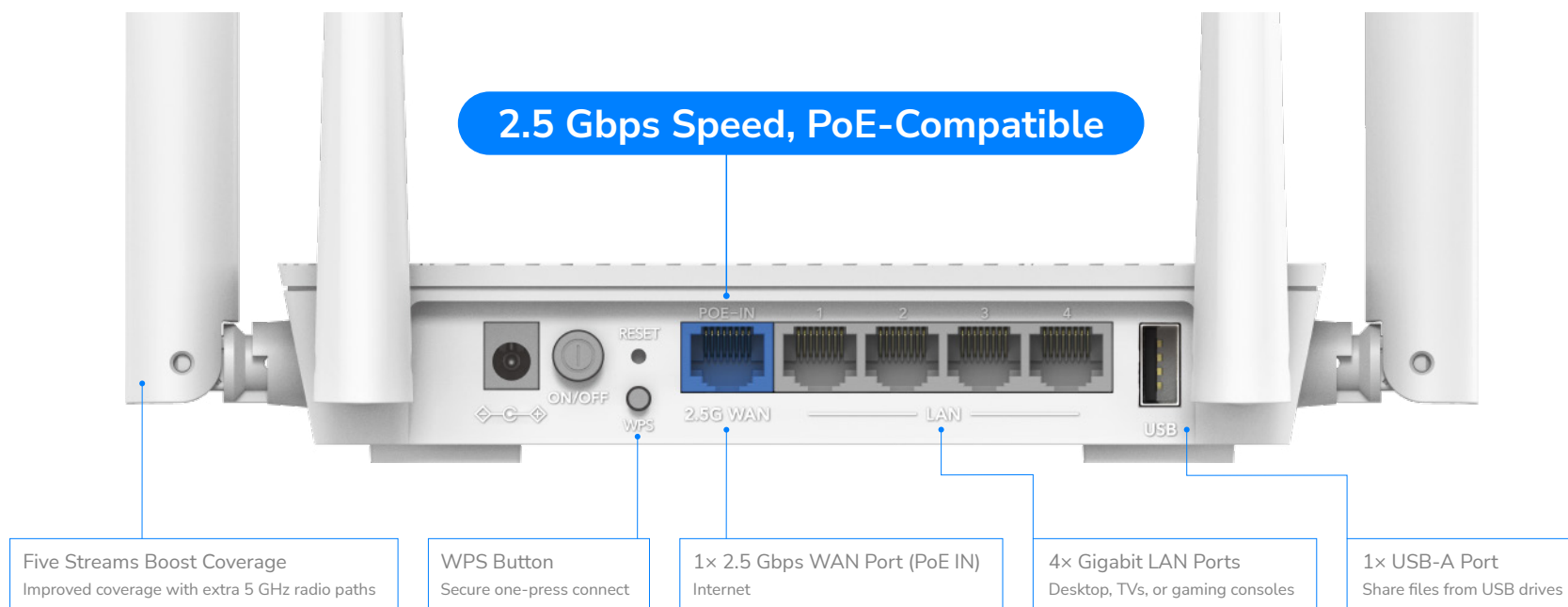




Model: WR3000P

AX3000 2.5G Mesh Wi-Fi 6 PoE Router

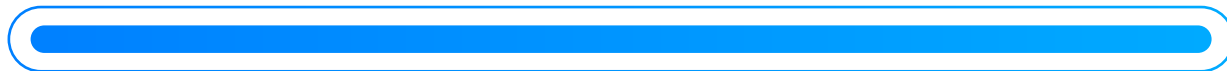




Super-Fast Wi-Fi Speed

Enjoy instant file downloads and responsive video playback with the top-notch 160 MHz bandwidth—the widest bandwidth in Wi-Fi 6 unleashes the full speed of the multi-Gig internet and mainstream client devices.

2402 Mbps 5 GHz



574 Mbps 2.4 GHz



512 MB High-Density Wi-Fi Capacity

512 MB RAM and the upgraded Wi-Fi 6 standard, featuring downlink and uplink MU-MIMO and OFDMA, enables faster data transmission to multiple devices, reducing latency and boosting capacity for smoother video calls and more immersive online gaming.



Advanced whole home Wi-Fi mesh system, seamlessly connects your entire home with reliable Wi-Fi.

Incredible Processing Power

Equipped with high-efficiency features and large RAM, the powerful chipset process data for hundreds of devices and keeps the system stable.

- 1.3 GHz Dual-Core
- ARM® Cortex-A53



Highlights

A PoE-powered WiFi 6 router with 2.5 Gbps internet connectivity, ideal for connecting a large number of devices and reducing latency. It features a USB ports, enabling fire sharing or third-party device powering.

- 1.3 GHz Dual-Core CPU
- 512 MB RAM
- 4-Stream Dual-Band Wi-Fi 6
- 2402 Mbps + 574 Mbps Wi-Fi
- 1× 2.5GbE and 4× GbE
- 1× USB 2.0
- 802.3at/af, Passive PoE, DC
- Covers 130 m² (1,400 ft²)
- 200 Connected Devices
- Cudy App, Cloud Control
- EasyMesh

Package Content

- WR3000P
- Power Adapter
- Ethernet Cable
- Installation Guide

Hardware Specs

CPU	Chipset	MT7981
	CPU Details	1.3 GHz Dual-Core, ARM Cortex-A53
Memory/Storage	Flash/ROM	128 MB (1 Gbit) NAND
	DDR/RAM	512 MB (4 Gbit) DDR4
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) with an Extra Stream
	2.4 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	Wi-Fi Antennas	4× Fixed
	5 GHz Antenna Gain Max	5.3dBi
	2.4 GHz Antenna Gain Max	5.3dBi
	FEM or PA/LNA	5 GHz: 3× External 2.4 GHz: 2× External
	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 Specs

Interfaces	2.5G RJ45 Ports	1	
	Gigabit RJ45 Ports	4	
	Ethernet Notes	The 2.5G port is WAN port and accepts PoE powering, the Gigabit ports are LAN ports	
	USB-A 2.0 Ports	1	
	LED	System	
		Internet	
		2.4 GHz Wi-Fi	
		5 GHz Wi-Fi	
		WAN	
		LAN	
	USB		
Physical Buttons	Power On/Off Button		
	WPS Button		
	Reset Button		
Power Input	DC Jack, PoE via Ethernet Port		

Power	Power Methods	DC	
		802.3at/af PoE	
		Passive PoE	
	DC	12V 1.5A	
	Passive PoE	48~57V	

Power	Power Adapter	Input: 100 ~ 240 V, 50/60 Hz AC
		Output: 12V 1.5A DC
	Max Power Consumption (W)	9W
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
		Wall-mount
	Dimension	173×123.8×33 mm
		6.81×4.87×1.3 inches
Ordering Information	Retail Package Dimension	304×268×54 mm
		11.97×10.55×2.13 inches
	Units per Carton	20
	Carton Dimension	55.6×55.5×32.5 cm
		21.89×21.85×12.8 inches



Software Specs

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	

General	WAN Mode	DHCP
		Static IP
		PPPOE
		PPTP
		L2TP
	Internet Failover Sequence	WAN
		WISP
Network	QoS	Per-User Rate Limiting
		Address Reservation
	DHCP	DHCP Client List
		Server
		IP Versions
	IPv6 Protocols	Relay
		Dynamic (SLAAC/DHCPv6)
		Static (Fixed IP)
		Passthrough
		464XLAT
IPTV/VLAN	MAP-E	
	DS-Lite	
	Bridge	
	Tag VLAN	
	VoIP VLAN	
	IPTV VLAN	



Software Specs

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	
		VPN Client	WireGuard
			OpenVPN
			IPsec
	Zerotier		
	PPTP		
	L2TP		
	VPN Performance	OpenVPN Client (UL/DL): 90 / 120 Mbps	
		OpenVPN Server (UL/DL): 180 / 160 Mbps	
		WireGuard Client (UL/DL): 224 / 230 Mbps	
	WireGuard Server (UL/DL): 360 / 314 Mbps		
	DNS Options	DNS over TLS	
		Manual DNS	
		Rebind Protection	
		Override Clients' DNS	



Software Specs

Utilities	Wake on LAN	True
	Wake on LAN	True
	Wake on LAN	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
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	

System	LED Control	ture
	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	<ul style="list-style-type: none"> • English • Bengali • Catalan • Czech 	
	<ul style="list-style-type: none"> • German • Greek • Spanish • French 	
	<ul style="list-style-type: none"> • Hebrew • Italian • Croatian • Hungarian 	
	<ul style="list-style-type: none"> • Khmer • Korean • Dutch • Japanese 	
	<ul style="list-style-type: none"> • Russian • Slovak • Swedish • Romanian 	



Software Specs

System	Languages	<ul style="list-style-type: none">• Turkish• Vietnamese• Thai• Ukrainian• Polish• Norwegian• Portuguese• Simplified Chinese• Traditional Chinese
Dashboard	Panel	<ul style="list-style-type: none">Internet StatusMesh StatusDevices ManagementWAN StatusLAN StatusWISP StatusWi-Fi StatusVPN StatusDHCP Server StatusSystem Version
	Charts	<ul style="list-style-type: none">Mesh TopologyInternet SpeedWISP SpeedWi-Fi Speed