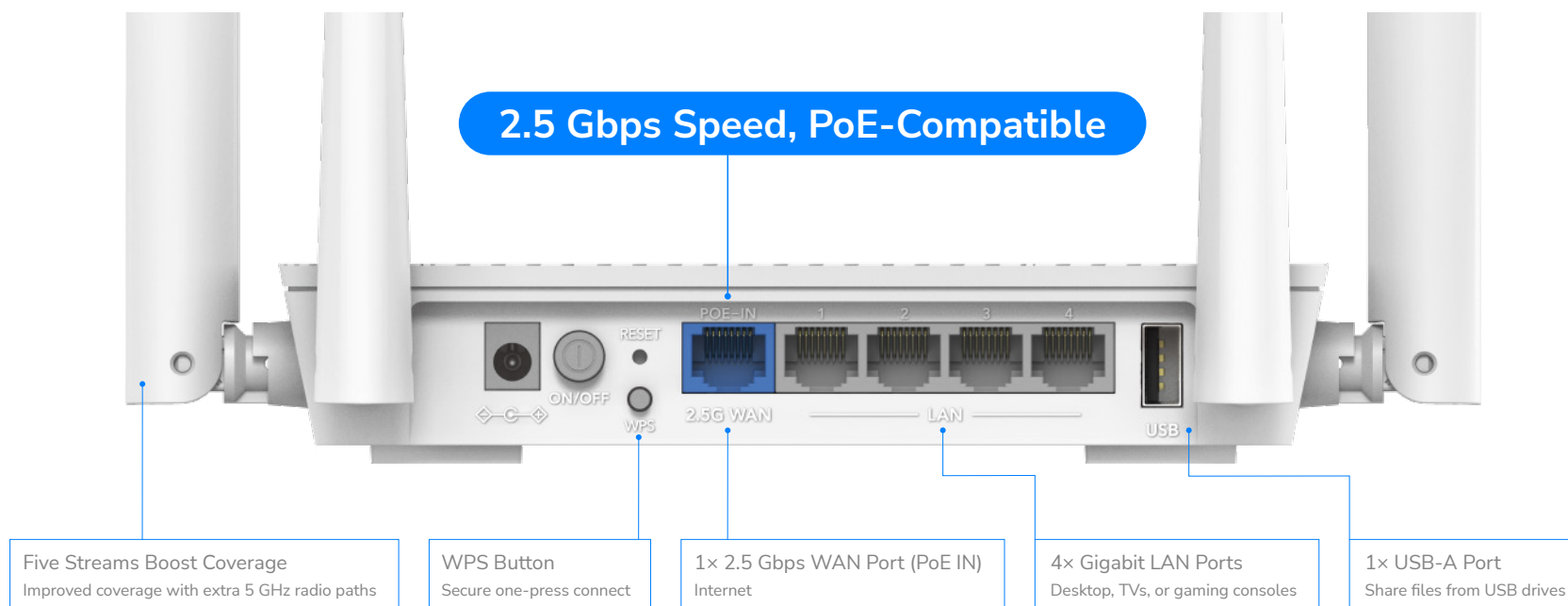




Model: WR3000P

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
Power	Physical Buttons	USB
		Power On/Off Button
		WPS Button
		Reset Button
		DC Jack, PoE via Ethernet Port
	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
General	WPS	True
	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	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



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	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	• English • Bengali • Catalan • Czech
		• German • Greek • Spanish • French
		• Hebrew • Italian • Croatian • Hungarian
		• Khmer • Korean • Dutch • Japanese
		• Russian • Slovak • Swedish • Romanian

System	LED Control	ture
	Local Control Method	Config Web Page App Control
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		• Russian • Slovak • Swedish • Romanian



Software Specs

System	Languages	• Turkish • Vietnamese • Thai • Ukrainian
		• Polish • Norwegian • Portuguese
		• 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