



Model: WR5000

BE5000 2.5G Mesh Wi-Fi 7 Router





Highlights

A dual-band WiFi 7 router with an aggregate of 5 Gbps speed, featuring 3T3R extra coverage design, catering to multi-Gig internet access, gaming, and large-scale scenarios.

- 5-Stream Dual-Band Wi-Fi 7
- 4324 Mbps + 688 Mbps Wi-Fi
- 1× 2.5GbE and 4× GbE
- 200 Connected Devices
- Cudy Mesh, VPN Server and Client
- Cudy App, Cloud Control

Package Content

- WR5000
- Power Adapter
- Ethernet Cable
- Installation Guide

Hardware Specs

CPU	CPU Details	Quad-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	4324 Mbps
	2.4 GHz Wi-Fi Speed	688 Mbps
	5 GHz Wi-Fi Streams	3 Spatial Streams
	2.4 GHz Wi-Fi Streams	2 Spatial Streams
	Wi-Fi Antennas	4× Fixed
	FEM or PA/LNA	5 GHz: 3× Internal
		2.4 GHz: 2× Internal
	Beamforming	True
	Range Performance	Max: 220 m (722 ft)
		Tested in open-space environments with minimal interference. Actual WiFi range may vary depending on layout and wall materials. Refer to the Wall Performance specifications 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, the Gigabit ports are LAN ports
	LED	System
		Internet
		WAN
		LAN
		2.4 GHz Wi-Fi
		5 GHz Wi-Fi
	Physical Buttons	WPS Button Reset Button
	Power Interfaces	DC Jack
Power	Power Methods	DC
	Power Input	12V $\overline{\text{---}}$ 1.5A
	Power Adapter In the Box	Input: 100-240V~, 50/60Hz Output: 12V $\overline{\text{---}}$ 1.5A
	Max Power Consumption (W)	14W
	Idle Power Consumption (W)	4.9W
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
	Dimension	Wall-mount
		Main Part:
		183.3×109×34 mm
		7.22×4.29×1.34 inches
		Antenna:
		175 mm
		6.89 inches
Ordering Information	Retail Package Dimension	330×256×60 mm
		12.99×10.08×2.36 inches
	Units per Carton	10
	Carton Dimension	52.8×31.7×34.7 cm
		20.79×12.48×13.66 inches



Software Specs

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 / WISP
		Access Point / Client
		Range Extender
	Mesh	Cudy Mesh
	Mesh Backhaul	Wireless Backhaul
		Wired Backhaul
	Multi-Band Backhaul	True
	WAN Mode	DHCP / Static IP / PPPOE
		PPTP / L2TP

Network	QoS	Per-User Rate Limiting
	DHCP	Address Reservation
		DHCP Client List
		Server
		IPv4/IPv6
	IP Versions	
	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
	IGMP	IGMP Proxy
		IGMP Snooping
	Forwarding	Port Forwarding
		Port Triggering
		UPnP
		DMZ



Software Specs

Network	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
	Multicast	True
Utilities	VPN Server & 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	Parental Controls	Profiles Settings
		Offline Time
		Online Time
		Pause the Internet
		Web Filter
	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
		Config Web Page
	Remote Control Method	App Control
		Config Page via HTTPS
		App Control
		TR069/TR098/TR111/TR181
	Firmware Upgrade	Local Update
		App (Over the Air)
		Online Update



Software Specs

System	Reliability	Timed Reboot	
		Backup and Restore	
	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
		Devices Management
		WAN Status
		LAN Status
		Wi-Fi Status
		VPN Status
		DHCP Server Status
		System Version
	Charts	Internet Speed
		Wi-Fi Speed

1. Actual wireless data throughput will vary as a result of network conditions, client limitations, and environmental factors including building layout, obstacles, and client location.
2. Actual performance for multiple devices may be affected by the types of applications used, the total available bandwidth, and the capabilities of your devices. Connecting older Wi-Fi devices (legacy standards) may reduce overall efficiency. Using efficiency features requires compatible client devices that also support those features. Find more information about supported efficiency features in the software section of the Specs spreadsheet.