

Model: WR11000

BE11000 2.5G Tri-Band Mesh Wi-Fi 7 Router





Highlights

A tri-band WiFi 7 router with an aggregate of 10.6 Gbps speed and four 2.5G ports, catering to latency-sensitive, speed-demanding, and large-scale scenarios.

- Qualcomm 1.5 GHz Quad-Core CPU
- 6-Stream Tri-Band Wi-Fi 7
- 5.7 Gbps + 4.3 Gbps + 688 Mbps
- 4× 2.5G Ethernet Ports
- Covers 140 m² (1,500 ft²)
- 200 Connected Devices
- Cudy Mesh, VPN Server and Client
- Cudy App, Cloud Control

Package Content

- WR11000
- Power Adapter
- Ethernet Cable
- Installation Guide

Hardware Specs

CPU	CPU Details	1.5 GHz Dual-Core, ARM Cortex-A53
Memory/Storage	Flash/ROM	128 MB (1 Gbit) NAND
	DDR/RAM	512 MB (4 Gbit) DDR4
Wireless	6 GHz Wi-Fi Speed	5765 Mbps
	5 GHz Wi-Fi Speed	4324 Mbps
	2.4 GHz Wi-Fi Speed	688 Mbps
	6 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	5 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	2.4 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	Wi-Fi Antennas	6× Fixed
	6 GHz Antenna Gain Max	4.5dBi
	5 GHz Antenna Gain Max	4.5dBi
	2.4 GHz Antenna Gain Max	5dBi
	FEM or PA/LNA	6 GHz: 2× High-Power
		5 GHz: 2× High-Power
		2.4 GHz: 2× Standard
	Beamforming	True
	Range Performance	Max: 240 m (787 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	4
	Ethernet Notes	1× WAN port, the rest are LAN ports
	LED	System / Internet / Wi-Fi / WPS
	Physical Buttons	Power On / Off Button
		WPS Button
		Reset Button
Power Input	DC Jack	
Power	Power Methods	DC
	DC Input	12V 2A
	Power Adapter	Input: 100 ~ 240 V, 50/60 Hz AC
		Output: 12V 2A DC
	Max Power Consumption (W)	22W
	Idle Power Consumption (W)	12W
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	253×152.5×48.2 mm
		9.96×6×1.9 inches
	Product Weight	643.4 g (22.7 oz.)

Ordering Information	Retail Package Weight	EU: 1236.3 g (43.61 oz.)
	Retail Package Dimension	431×324×58 mm
		16.97×12.76×2.28 inches
	Units per Carton	8
	Carton Dimension	49.2×44.5×34.4 cm
		19.37×17.52×13.54 inches
	Carton Gross Weight	EU: 10.9 kg (24.03 lbs)
	Carton Net Weight	EU: 9.9 kg (21.83 lbs)



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	384
	Recommended Client Upper Limit	200
	Max Wi-Fi Channel Width	320 MHz
	Wi-Fi Security	WPA/WPA2/WPA3
	Guest Network	2.4 GHz, 5 GHz, 6 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	
		Utilities	VPN Server & VPN Client
	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
	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



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. The wireless coverage claim serves as a reference only. Coverage performance will vary due to environmental factors including building layout, obstacles, traffic volume and density, and device location. For optimal coverage, please place the device in a central location within the area requiring Wi-Fi.
3. 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.