ComX Computers
Product Specification Sheet

CD-WR6500

Cudy Dual Band WiFi 7 6500 Mbps 5dBi Gigabit Mesh Router

Product Overview

Cudy Dual Band WiFi 7 6500 Mbps 5dBi Gigabit Mesh Router, WR6500, 5765 Mbps @ 5GHz Wi-Fi Speed, 688 Mbps @ 2.4GHz Wi-Fi Speed, 4x4 MIMO 5GHz Wi-Fi streams, 2x2 MIMO 2.4GHz Wi-Fi streams, 6x fixed Wi-Fi antennas, Beamforming, Max 240 m range performance, 5x Gigabit RJ45 Ports with 1x WAN Port, Operation modes - Wi-Fi Router / Access Point











Specifications

Overview:

BE6500 Gigabit Wi-Fi 7 Router, WR6500 1.0

A dual-band WiFi 7 router with an aggregate of 6.5 Gbps speed, and five Gigabit ports, catering to super-fast internet access, gaming, and entertainment scenarios.

- Broadcom 2 GHz Quad-Core CPU
- 6-Stream Dual-Band Wi-Fi 7
- 5765 Mbps + 688 Mbps Wi-Fi
- 5x Gigabit Ethernet Ports
- 200 Connected Devices
- Covers 140 m² (1,500 ft²)
- VPN Server and Client
- Cudy App, Cloud Control

Features:

Powerful CPU. Super-Responsive.

Feel the instantaneous respond and smooth operation when browsing, streaming, and gaming, even when connecting numerous devices. The advanced Quad-Core CPU and 512 MB large RAM provides big bump in processing power with higher capacity.

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Lightning-Fast Response for Multiple Devices

Featuring smarter Multi-RU and Puncturing spectrum reuse technology, WR6500 significantly boosts interference resistance, optimizes spectrum usage, and ensures lower latency for gaming, calls, and web browsing across multiple devices.

Optimal Wi-Fi Range for Extra Rooms

The high-gain antennas with Beamforming technology offer stronger, more focused Wi-Fi signals towards client devices, delivering faster speeds and greater stability throughout your home or office.

Parental Controls

Set Wi-Fi schedules and block inappropriate content to keep your family safe online. Easily manage multiple devices with customization profiles.

Cudy App

Manage your network from your phone. This model supports cloud remote control and local control via the Cudy App.

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Specifications:

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Specifications	
Product Code	CD-WR6500
Model Version	WR6500 1.0
CPU	
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) DDR4
Wireless	
5 GHz Wi-Fi Speed	5765 Mbps
2.4 GHz Wi-Fi Speed	688 Mbps
5 GHz Wi-Fi Streams	4T4R (4x4 MIMO)
2.4 GHz Wi-Fi Streams	2T2R (2x2 MIMO)
Wi-Fi Antennas	6x Fixed
5 GHz Antenna Gain Max	5.27dBi
2.4 GHz Antenna Gain Max	5.19dBi
FEM or PA/LNA	5 GHz: 4x External
	2.4 GHz: 2x Internal
Beamforming	True
Range Performance	Max: 240 m (787 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")
Interfaces	
Gigabit RJ45 Ports	5
Ethernet Notes	1x 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	12V 1.5A
Power Adapter	Input: 100 ~ 240 V, 50/60 Hz AC
	Output: 12V 1.5A DC
Max Power Consumption (W)	17W
Reliability	
Environment	Operating Temperature: 0 degreesC ~ 40 degreesC (32 degreesF ~104 degreesF)
	Storage Temperature: -40 degreesC ~ 70 degreesC (-40 degreesF ~ 158 degreesF)
	Humidity: 10% ~ 90% non-condensing
	Storage Humidity: 5% ~ 95% non-condensing
Certifications	
Certifications	FCC, CE
Mechanical	
Installation	Desktop
	Wall-mount
Dimension	253x152.5x48.2 mm
	9.96x6x1.9 inches
Product Weight	580.0 g (20.46 oz.)
Package Content	
Package Content	WR6500
	Power Adapter
	Ethernet Cable
	Installation Guide
Ordering Information	
Retail Package Weight	EU: 1190.0 g (41.98 oz.)
Retail Package Dimension	431x324x58 mm
	16.97x12.76x2.28 inches
Units per Carton	8
Carton Dimension	49.2x44.5x34.4 cm
	19.37x17.52x13.54 inches
Carton Gross Weight	EU: 10.5 kg (23.15 lbs)
Carton Net Weight	EU: 9.5 kg (20.94 lbs)

Model Version	
Model Version	WR6500 1.0
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
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
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
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
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
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

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/CD-WR6500-Cudy-Dual-Band-WiFi-7-6500-Mbps-5dBi-Gigabit-Mesh-Router-p-322911.php

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