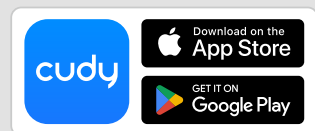
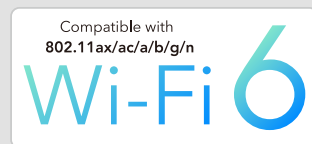




Model: P4

5G SA/NSA AX3000 Wi-Fi 6 Router



Easy Setup with Cudy App



Datasheet

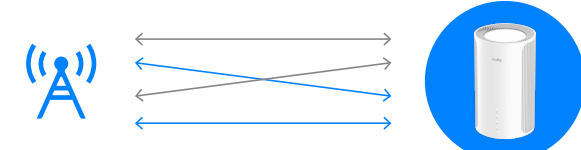


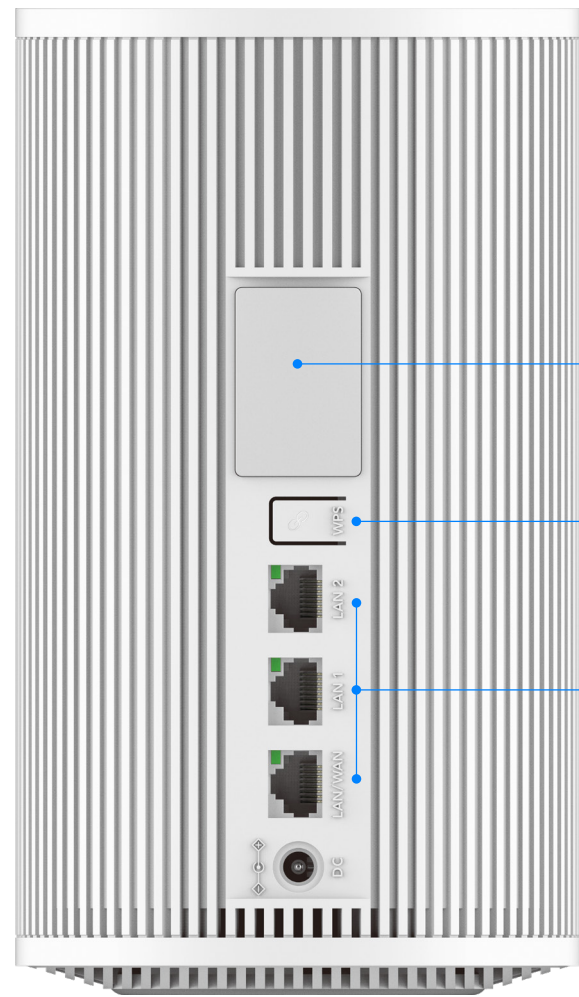
5G. Wi-Fi 6. Top-Notch Network.

Lightning-Fast 5G up to 3.4 Gbps Download

The Carrier Aggregation and 4x4 MIMO accelerate internet speed and reduce network latency to provide premium networks for bandwidth/latency-sensitive applications.

CA  **Carrier Aggregation**
Improves stability drastically

 **4x4 MIMO**
Boosts speeds with multiple streams



2x SMA Connectors for Extension Antennas



WPS Button



3x Gigabit Ethernet Ports

SIM Card Slot



Reset Button



High-Capacity Wi-Fi 6

The exceptional Wi-Fi performance enables online gaming and HD video streaming at the same time, while large files can be shared with multiple devices.

2.4 GHz 574 Mbps 

5 GHz 2402 Mbps 



Always-On Internet with WAN Failover

Set the WAN/LAN port to WAN and connect to internet via broadband, then back up your network with the 5G connection to have a more reliable connection.

VPN for Secure Remote Access

ZeroTier/WireGuard/OpenVPN/IPSec/ L2TP/ PPTP are available for boundless VPN applications. Server and client are both supported.



Plug in a SIM Card to Enjoy Network Everywhere



Highlights

A 5G WiFi 6 router employing the 3GPP Release 16 standard, with a max 3.4 Gbps download speed. It features dual Qualcomm chipsets, one SIM slot, and a high-capacity AX3000 WiFi 6.

- 5G Rel. 16 with Max 3.4 Gbps DL
- UL/DL 4CA, 4x4 MIMO
- 4-Stream Dual-Band Wi-Fi 6
- 2402 Mbps + 574 Mbps Wi-Fi
- 3x Gigabit Ethernet Ports
- 1x Nano SIM Slot
- Cudy Mesh, VPN Server and Client
- Cudy App, Cloud Control

Package Content

- P4
- Power Adapter
- Ethernet Cable
- Installation Guide

Hardware Specs

CPU	Chipset	IPQ5018	
	CPU Details	1.0 GHz Dual-core, ARM Cortex-A53	
Memory /Storage	Flash/ROM	128 MB (1 Gbit) NAND	
	DDR/RAM	512 MB (4 Gbit) DDR3	
Cellular	Cellular Standards	5G Rel. 16 DL 4G Cat. 19 / UL 4G Cat. 18	
	Cellular Antennas	4x Internal, 2x SMA Connectors for Customized Antennas	
	Detachable Cellular Antennas Connector	SMA Female	
	SIM Options	1x Nano SIM Slot, eSIM (optional)	
	Available Versions	EU, US	
	EU Version Cellular	Suitable Region	Europe, Middle East, Africa, Asia-Pacific (Exc. JP, CN), Brazil
		Max DL Speed	3.4 Gbps (NSA), 2.4 Gbps (SA)
	Max UL Speed	550 Mbps (NSA), 900 Mbps (SA)	
	Advanced	DL/UL 4CA, DL 4x4, UL 2x2 MIMO	
	Cellular Bands	5G Sub 6 GHz: n1/3/5/7/8/20/28/38/40/41/71/75/76/77/78 LTE-FDD: B1/3/5/7/8/20/28/32/71 LTE-TDD: B38/40/41/42/43/71 WCDMA: B1/5/8	



Hardware Specs

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)
	2.4 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	Wi-Fi Antennas	Internal
	Beamforming	True
	FEM or PA/LNA	5 GHz: 2× External 2.4 GHz: 2× External
	Range Performance	Max: 170 m (558 ft) Indoor WiFi range varies depending on the layout and wall materials. See Wall Performance spec for placement suggestions.
	Wall Performance	One wooden walls with thickness < 10 cm (4") One concrete wall with thickness < 20 cm (7")
Interfaces	Physical Buttons	WPS Button Reset Button
	Gigabit RJ45 Ports	3
	Ethernet Notes	One port supports WAN/LAN configuration, and the rest are LAN ports

Interfaces	LED	Power	
		Internet	
		Wi-Fi	
		Cellular	
	Power Input	DC Jack	
Power	Power Methods	DC	
	DC	12V 2.5A	
	Power Adapter	Input: 100 ~ 240 V, 50/60 Hz AC Output: 12V 2.5A DC	
Reliability	ESD Contact Protection	4kV	
	ESD Air Protection	8kV	
	Environment	Operating Temperature:	0 °C ~ 40 °C (32 °F ~ 104 °F)
		Storage Temperature:	-40 °C ~ 70 °C (-40 °F ~ 158 °F)
Operating Humidity:		10% ~ 90% non-condensing	
	Storage Humidity:	5% ~ 90% non-condensing	
Certifications	FCC, CE		
Mechanical	Dimension	Φ116×202 mm Φ4.57×7.95 inches	
	Installation	Desktop	



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	256
	Recommended Client Upper Limit	100
	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	Cellular Router
		Wi-Fi Router
		-
	Mesh	Cudy Mesh Main
	Mesh Backhaul	Wireless Backhaul
		Wired Backhaul
	Cellular APN	Band Select (Band Lock)
		Cellular Mode Select
		Data Roaming
		APN Profile
Manual APN Profile		
MBN		
MTU Value		

General	Cellular Mode	5G NSA Only	
		5G SA Only	
		4G Only	
		3G Only	
		Auto	
	WAN Mode	DHCP	
		Static IP	
		PPPOE	
		L2TP	
		PPTP	
Internet Failover Sequence	WAN		
	Cellular		
	-		
	Network	QoS	Per-User Rate Limiting
		DHCP	Address Reservation
DHCP Client List			
IP Versions	IPv6 Protocols	Server	
		Relay	
	IPv6 Protocols	Dynamic (SLAAC/DHCPv6)	
		Static (Fixed IP)	
		Passthrough	
		464XLAT	
		MAP-E	
DS-Lite			



Software Specs

Network	IPTV/VLAN	Bridge
		Tag 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
	VPN Client	L2TP
		WireGuard
		OpenVPN
		IPsec
		Zerotier
	DNS Options	PPTP
		L2TP
		DNS over TLS
		Manual DNS
		Rebind Protection
	DNS over TLS Providers	Override Clients' DNS
		Cloudflare
		Google
		Quad9
		Custom
Wake on LAN	True	
Online Detection	True	



Software Specs

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	<ul style="list-style-type: none"> • English • Bengali • Catalan • Czech • German • Greek • Spanish • French • Hebrew • Italian • Croatian • Hungarian • Khmer • Korean • Dutch • Japanese • Russian • Slovak • Swedish • Romanian • Turkish • Vietnamese • Thai • Ukrainian • Polish • Norwegian • Portuguese • Simplified Chinese • Traditional Chinese 	

Management	All Devices Management	Wi-Fi Time Schedule
		MAC Filter
	IP/MAC Binding	
Per-Devices Management		Intenent On/Off
		VPN On/Off
		Online Time Schedule
		Device Rename
Content Management		Domain Filter
		IP Filter
Dashboard	Panel	Internet Status
		Mesh Status
		Devices Management
		Cellular Status
		SMS Send and Receive
		WAN Status
		LAN Status
		-
		Wi-Fi Status
		VPN Status
		DHCP Server Status
		System Version
		Charts
	Cellular Speed	
	Internet Speed	
	Wi-Fi Speed	
	-	