

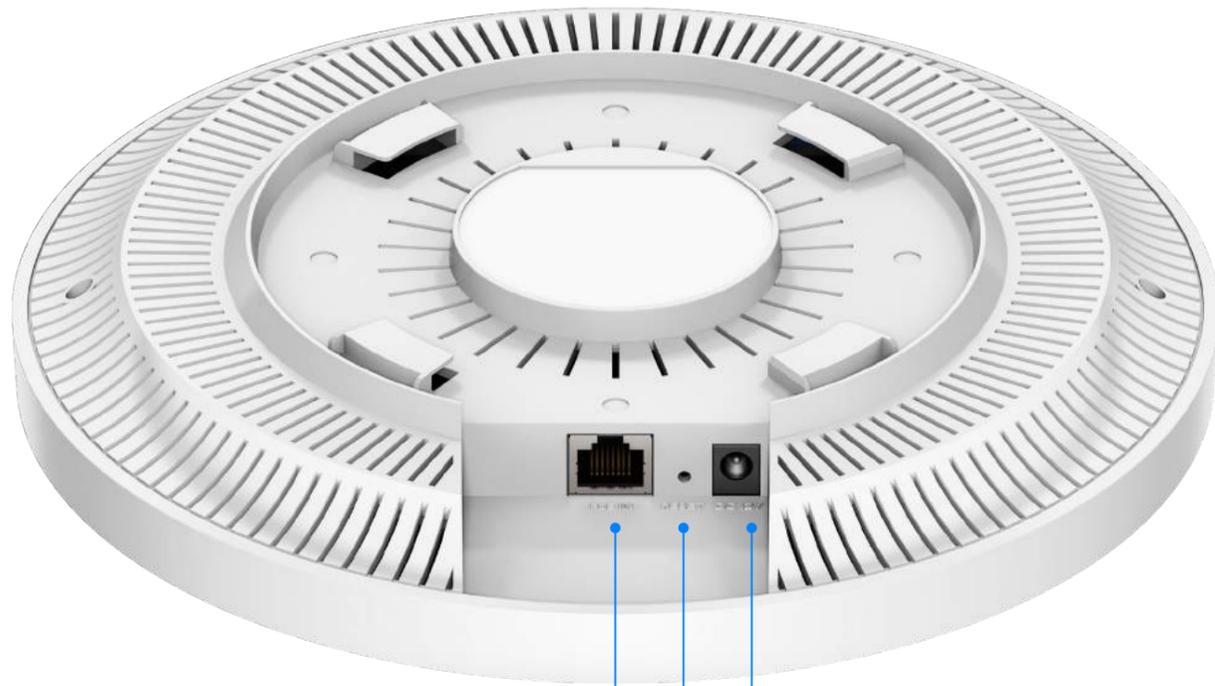


Model: AP3000/AP3000_P

AX3000

Ceiling Mount
Wi-Fi 6 Access Point with 2.5G Port





2.5 Gbps Ethernet Port (PoE IN) RESET DC

Connects More, Stay Fast

MU-MIMO and OFDMA technology significantly reduce transmission latency to and from the AP when connecting multiple devices.

150+
Devices

Shielded 2.5 Gbps Ethernet Port

Turbocharge the bandwidth with a shielded 2.5G Ethernet port, enabling more devices to stream simultaneously without buffering, even in a complex electromagnetic environment.

Premium Business Network with Multi-Gig Wi-Fi 6

Impress your customers with fast and responsive Wi-Fi with multi-gig bandwidth, enabled by the highest 160 MHz channel width in Wi-Fi 6.



2402 Mbps
5 GHz

574 Mbps
2.4 GHz

[Datasheet](#) AX3000 Ceiling Mount Wi-Fi 6 Access Point with 2.5G Port | AP3000

Seamless Coverage with Cudy Mesh

Connect AP to a Cudy AC/Mesh device to set up instantly and enable the fast roaming feature, allowing clients to move freely between Wi-Fi zones without switching networks.



Highlights

A wall/ceiling-mounted WiFi 6 AP, featuring large RAM and shielded 2.5G ports, designed for connecting transportation hubs, hotels, offices, lecture halls, and classrooms.

- 1.3 GHz Dual-Core CPU
- 512 MB RAM
- 4-Stream Dual-Band Wi-Fi 6
- 2402 Mbps + 574 Mbps Wi-Fi
- 1× Shielded 2.5GbE PoE IN
- 802.3at, Passive PoE, DC
- Watchdog, Schedule Reboot
- 150 Connected Devices
- Covers 130 m² (1,400 ft²)

Package Content

- AP3000
- Mounting Kit
- Ethernet Cable
- Installation Guide

Hardware Specs

CPU	CPU Details	1.3 GHz Dual-Core CPU
Memory/Storage	Flash/ROM	256 MB (2 Gbit) NAND
	DDR/RAM	512 MB (4 Gbit) DDR4
Wireless	5 GHz Wi-Fi Speed	2402Mbps
	2.4 GHz Wi-Fi Speed	574 Mbps
	5 GHz Wi-Fi Streams	3T3R (3×3 MIMO)
	2.4 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	Wi-Fi Antennas	5× Internal
	FEM or PA/LNA	5 GHz: 2× External 2.4 GHz: 2× Internal
	Beamforming	True
Range Performance	Max: 200 m (656 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")	
Interfaces	2.5G RJ45 Ports	1
	Ethernet Notes	Accepts PoE powering
	LED	System



Hardware Specs

Interfaces	Physical Buttons	Reset Button	
	Power Interfaces	DC Jack, PoE via Ethernet Port	
Power	Power Methods	DC	
		Passive PoE	
		802.3at/af PoE	
	Power Input	DC: 12V=1.5A	
		Passive PoE: 48 ~ 57V=	
		PoE: 802.3at/af	
Power Adapter in the Box	AP3000 No adapter in the box		
	AP3000_P PoE adapter in the box:		
	Input: 100 ~ 240 V, 50/60 Hz AC		
	Output: 48V Passive PoE		
Max Power Consumption (W)		12 W (48 V PoE) 12 W (DC)	
Idle Power Consumption (W)		6.1 W (48 V PoE) 6.1 W (DC)	
Reliability	Advanced	Hardware Watchdog	
	EMS	ESD: Contact: 4kV; Air: 8kV	
	Environment	Operating Temperature:	
		-10 °C ~ 60 °C (14 °F ~140 °F)	
Environment	Storage Temperature:		
	-40 °C ~ 70 °C (-40 °F ~ 158 °F)		
Operating Humidity: 10% ~ 90% non-condensing			
Storage Humidity: 5% ~ 90% non-condensing			

Hardware Specs

Certifications	FCC, CE	
Mechanical	Installation	Wall-mount
		Ceiling-mount
	Dimension	Ø231.9×57.1 mm
		Ø9.13×2.25 inches
Product Weight	With PoE Adapter (_P) EU: 489.6 g (17.27 oz.)	
	EU: 489.6 g (17.27 oz.)	
Ordering Information	Retail Package Weight	With PoE Adapter (_P) EU: 1015 g (35.8 oz.)
		EU: 850.9 g (30.01 oz.)
Retail Package Dimension		283×238×68 mm (11.14×9.37×2.68 inches)
Units per Carton		20
Carton Net Weight	With PoE Adapter (_P) EU: 20.3 kg (44.75 lbs)	
	EU: 17.0 kg (37.48 lbs)	
Carton Gross Weight	With PoE Adapter (_P) EU: 21.7 kg (47.84 lbs)	
	EU: 18.2 kg (40.12 lbs)	
Carton Dimension	UK: 20.2 kg (44.53 lbs)	
	58×37.5×49.5 cm	
		22.83×14.76×19.49 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	256
	Recommended Client Upper Limit	150
	Max Wi-Fi Channel Width	160 MHz
	Wi-Fi Security	WPA/WPA2/WPA3
	Multi-SSID (Max Number)	8 SSIDs (Up to 4 SSIDs on each band)
VLAN Support		
WPS	True	
General	Operation Modes	Wi-Fi Router
		Access Point
		Range Extender
		WISP
		Client
	Mesh	Cudy Mesh
	Mesh Backhaul	Wireless Backhaul
		Wired Backhaul
	Multi-Band Backhaul	True
	WAN Mode	DHCP
Static IP		
PPPOE		
PPTP		
L2TP		

Software Specs

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
IPTV/VLAN	MAP-E	
	DS-Lite	
	Tag VLAN	
TTL Customization	Extend	
	Spoof	
	Custom	
IGMP	IGMP Proxy	
	IGMP Snooping	



Software Specs

Network	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	Captive Portal	True
	VPN Server	WireGuard
OpenVPN		
IPsec		
Zerotier		
PPTP		
L2TP		

Software Specs

Utilities	VPN Client	WireGuard	
		OpenVPN	
		IPsec	
		Zerotier	
		PPTP	
		L2TP	
		DNS Options	DNS over TLS
			Manual DNS
		DNS over TLS Providers	Rebind Protection
			Override Clients' DNS
	Cloudflare		
	Wake on LAN	Google	
		Quad9	
	Online Detection	Custom	
True			
Management	All Devices Management	True	
		Wi-Fi Time Schedule	
		MAC Filter	
	Per-Devices Management	IP/MAC Binding	
		Internet On/Off	
		VPN On/Off	
		Online Time Schedule	
Device Rename			



Software Specs

Management	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	

Software Specs

System	Languages	• 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	
Dashboard	Panel	Internet Status	
		Mesh Status	
		Devices Management	
		WAN Status	
		LAN Status	
	Charts	Mesh Topology	
		Internet Speed	
		WISP Speed	
		Wi-Fi Speed	
General		WAN	
		WISP	