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OAP3000GI

AX3000 Wi-Fi 6 Dual-Band PoE Access Point

Wi-Fi 6 (802.11ax), 2.4/5GHz, internal 4/4.6 dBi antennas, 2x1000Base-T, 12V DC/802.3af PoE, ceiling/wall mounting

The OAP3000GI is a dual-band AX3000 Wi-Fi 6 gigabit access point with PoE support.

The ORIGO OAP3000GI access point is designed to build modern Wi-Fi 6 networks with high client density in government agencies, commercial organizations, educational institutions, exhibition centers, and hotel and station complexes.

The OAP3000GI supports simultaneous operation in two frequency bands and provides a maximum wireless connection speed of up to 2402Mbps in the 5GHz band and up to 574Mbps in the 2.4GHz band. OFDMA and MU-MIMO technologies ensure high speed and low latency in networks with multiple simultaneous connections. To protect data transmitted over Wi-Fi, the access point supports WPA3 encryption.

The access point is designed for ceiling or wall mounting. A mounting kit is included in the delivery package. Power can be supplied using a 12V DC[1] adapter or via PoE technology from a switch or injector that supports the 802.3af standard.

[1]A power adapter is not included in the delivery package.

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Key Features

- AX3000 Wi-Fi 6: up to 2402Mbps in 5GHz and up to 574Mbps in 2.4GHz
- 1 gigabit WAN port, 1 gigabit LAN port
- 4 internal omnidirectional antennas with 4.6dBi gain for 2.4GHz and 4dBi gain for 5GHz
- Surge Protection is up to 2kV; Electrostatic Discharge Protection is up to 8kV
- 802.3af PoE or 12V DC power adapter (not included in the delivery package)
- Ceiling/wall mounting

Specifications

Hardware

Processor	• MT7981BA (1.3GHz, dual core)
Ports	• 1 10/100/1000BASE-T WAN port with PoE support • 1 10/100/1000BASE-T LAN port
Antennas	• 2 internal omnidirectional 4.6dBi antennas for 2.4GHz • 2 internal omnidirectional 4dBi antennas for 5GHz
MIMO	• 2x2, MU-MIMO
LEDs	• Status • WAN • LAN
Buttons	• Reset
Power connector	• Power input connector (DC)
Mounting	• Ceiling • Wall

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Wireless Module Parameters

Standards	• IEEE 802.11ax • IEEE 802.11ac Wave 2 • IEEE 802.11a/b/g/n
Frequency range	• 2.4~2.4835GHz • 5.15~5.35GHz • 5.65~5.85GHz

Wireless connection rate	• 2.4GHz
	  - 11ax: up to 574Mbps
	  - 11n: up to 300Mbps
	  - 11g: up to 54Mbps
	  - 11b: up to 11Mbps
	• 5GHz
	  - 11ax: up to 2402Mbps
	  - 11ac: up to 867Mbps
	  - 11n: up to 300Mbps
	  - 11a: up to 54Mbps

Transmitter output power	• Less than 20dBm (100mW)

Receiver sensitivity	• 2.4GHz
	  - 11b (11Mbps): -87dBm
	  - 11g (54Mbps): -75dBm
	  - 11n (HT20_MCS0): -92dBm
	  - 11n (HT20_MCS7): -73dBm
	  - 11n (HT40_MCS0): -89dBm
	  - 11n (HT40_MCS7): -70dBm
	  - 11ax (HT20_MCS0): -92dBm
	  - 11ax (HT20_MCS11): -64dBm
	  - 11ax (HT40_MCS0): -89dBm
	  - 11ax (HT40_MCS11): -61dBm
	• 5GHz
	  - 11a (54Mbps): -74dBm
	  - 11n (HT20_MCS0): -90dBm
	  - 11n (HT20_MCS7): -73dBm
	  - 11n (HT40_MCS0): -87dBm

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	- 11n (HT40_MCS7): -70dBm
	- 11ac (HT20_MCS0): -91dBm
	- 11ac (HT20_MCS7): -67dBm
	- 11ac (HT40_MCS0): -88dBm
	- 11ac (HT40_MCS7): -63dBm
	- 11ac (HT80_MCS0): -84dBm
	- 11ac (HT80_MCS9): -60dBm
	- 11ax (HT20_MCS0): -91dBm
	- 11ax (HT20_MCS11): -62dBm
	- 11ax (HT40_MCS0): -89dBm
	- 11ax (HT40_MCS11): -59dBm
	- 11ax (HT80_MCS0): -86dBm
	- 11ax (HT80_MCS11): -56dBm
	- 11ax (HT160_MCS0): -83dBm
	- 11ax (HT160_MCS11): -53dBm

Functionality

Operation modes	• Router • Access point
Wi-Fi functions	• MU-MIMO • OFDMA • Schedule for Wi-Fi
Wireless connection security	• Multi-SSID • MAC address filtering • SSID broadcast disable • Clients isolation • VLAN • WPA • WPA2 • WPA3
Management	• Web-based interface • Telnet

Physical Parameters

Device dimensions (L x W x H)	• 186 x 186 x 37 mm

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Device weight	• 0.55 kg
Package dimensions	• 24.3 x 23.5 x 7.6 cm
Gross weight	• 0.77 kg

Operating Conditions

Power	• 802.3af PoE • Power adapter (not included in the delivery package): 12V DC, 1.5A
Max Power Consumption	• 15W
Surge Protection	• Up to 2kV in common mode • Up to 1kV in differential mode
Electrostatic Discharge Protection (ESD)	• Up to 4kV (contact discharge) • Up to 8kV (air discharge)
Temperature	• Operating: from -40 to 45 °C • Storage: from -40 to 70 °C
Humidity	• From 5% to 95% (non-condensing)

Package Contents

Package Contents	• Access point OAP3000GI • Ethernet cable • Mounting kit • Quick Installation Guide

Order Info

OAP3000GI	AX3000 Wi-Fi 6 Access Point, 2.4/5GHz, 1x1000Base-T WAN PoE, 1x1000Base-T LAN *A power adapter is not included in the delivery package*