



OAP3000M

AX3000 Wi-Fi 6 Dual-Band PoE Outdoor Access Point

Wi-Fi 6 (802.11ax), 2.4/5GHz, internal 4dBi antennas, 1x2.5GBase-T, 1x1000Base-T, 802.3at PoE, IP67, from -40 to 55 °C, wall/pole mounting



The OAP3000M is an outdoor dual-band AX3000 Wi-Fi 6 multi-gigabit PoE access point.

The ORIGO OAP3000M 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 access point is adapted to operate in adverse weather conditions. The housing is protected against dust and water according to the IP67 standard. The operating temperature range is from -40 to 55°C.

The OAP3000M supports simultaneous operation in two frequency bands and provides a maximum wireless connection speed of up to 574Mbps in the 2.4GHz band and up to 2402Mbps in the 5GHz 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 wall or pole mounting. Pole mounts are included in the delivery package. Power is supplied via PoE technology from a switch or injector that supports the 802.3at standard, making it easier to install the equipment in places with power supply restrictions.



Key Features

- AX3000 Wi-Fi 6: up to 2402Mbps in 5GHz and up to 574Mbps in 2.4GHz
- 2.5Gbps WAN port, 1Gbps LAN port
- 4 internal omnidirectional 4dBi antennas
- IP67-rated housing
- Operating temperature: from -40 to 55 °C
- Surge Protection is up to 4kV; Electrostatic Discharge Protection is up to 8kV
- 802.3at PoE power
- Wall/pole mounting

Specifications

Hardware

Processor	<ul style="list-style-type: none">• MT7981B (1.3GHz, dual core)
Ports	<ul style="list-style-type: none">• 1 100/1000/2.5GBase-T WAN port with PoE support• 1 10/100/1000Base-T LAN port
Antennas	<ul style="list-style-type: none">• 4 internal omnidirectional 4dBi antennas
MIMO	<ul style="list-style-type: none">• 2x2, MU-MIMO
LEDs	<ul style="list-style-type: none">• WAN• LAN• SYS• 2.4GHz Wi-Fi• 5GHz Wi-Fi
Buttons	<ul style="list-style-type: none">• Reset
Housing	<ul style="list-style-type: none">• IP67 protection class
Mounting	<ul style="list-style-type: none">• Pole• Wall

Wireless Module Parameters

Standards	<ul style="list-style-type: none">• IEEE 802.11ax• IEEE 802.11ac Wave 2• IEEE 802.11a/b/g/n
Frequency range	<ul style="list-style-type: none">• 2.4~2.4835GHz• 5.15~5.35GHz• 5.65~5.85GHz

Wireless connection rate	<ul style="list-style-type: none">• 2.4GHz<ul style="list-style-type: none">- 11ax: up to 574Mbps- 11n: up to 300Mbps- 11g: up to 54Mbps- 11b: up to 11Mbps• 5GHz<ul style="list-style-type: none">- 11ax: up to 2402Mbps- 11ac: up to 867Mbps- 11n: up to 300Mbps- 11a: up to 54Mbps
Transmitter output power	<ul style="list-style-type: none">• Less than 20dBm (100mW)
Receiver sensitivity	<ul style="list-style-type: none">• 2.4GHz<ul style="list-style-type: none">- 11b (11Mbps): -87dBm- 11g (54Mbps): -75dBm- 11n (HT20_MCS0): -88dBm- 11n (HT20_MCS7): -72dBm- 11n (HT40_MCS0): -88dBm- 11n (HT40_MCS7): -70dBm- 11ax (HE20_MCS0): -88dBm- 11ax (HE20_MCS11): -63dBm- 11ax (HE40_MCS0): -88dBm- 11ax (HE40_MCS11): -61dBm• 5GHz<ul style="list-style-type: none">- 11a (54Mbps): -75dBm- 11n (HT20_MCS0): -88dBm- 11n (HT20_MCS7): -73dBm- 11n (HT40_MCS0): -88dBm- 11n (HT40_MCS7): -63dBm- 11ac (VHT20_MCS0): -88dBm- 11ac (VHT20_MCS8): -67dBm- 11ac (VHT40_MCS0): -88dBm- 11ac (VHT40_MCS9): -64dBm- 11ac (VHT80_MCS0): -88dBm- 11ac (VHT80_MCS9): -60dBm- 11ax (HE20_MCS0): -88dBm



- 11ax (HE20_MCS11): -61dBm
- 11ax (HE40_MCS0): -88dBm
- 11ax (HE40_MCS11): -58dBm
- 11ax (HE80_MCS0): -84dBm
- 11ax (HE80_MCS11): -55dBm
- 11ax (HE160_MCS0): -82dBm
- 11ax (HE160_MCS11): -51dBm

Functionality

Operation modes	<ul style="list-style-type: none">• Router• Access point
Wi-Fi functions	<ul style="list-style-type: none">• MU-MIMO• OFDMA• Schedule for Wi-Fi
Wireless connection security	<ul style="list-style-type: none">• Multi-SSID• MAC address filtering• SSID broadcast disable• Clients isolation• VLAN• WPA• WPA2• WPA3
Management	<ul style="list-style-type: none">• Web-based interface• Telnet

Physical Parameters

Device dimensions (L x W x H)	<ul style="list-style-type: none">• 304 x 181 x 88 mm
Device weight	<ul style="list-style-type: none">• 1.3 kg
Package dimensions	<ul style="list-style-type: none">• 38 x 23 x 10.7 cm
Gross weight	<ul style="list-style-type: none">• 1.67 kg



Operating Conditions

Power	<ul style="list-style-type: none">• 802.3at PoE
Max Power Consumption	<ul style="list-style-type: none">• 18W
Surge Protection	<ul style="list-style-type: none">• Up to 4kV in common mode• Up to 2kV in differential mode
Electrostatic Discharge Protection (ESD)	<ul style="list-style-type: none">• Up to 6kV (contact discharge)• Up to 8kV (air discharge)
Temperature	<ul style="list-style-type: none">• Operating: from -40 to 55 °C• Storage: from -40 to 70 °C
Humidity	<ul style="list-style-type: none">• From 5% to 95% (non-condensing)

Package Contents

Package Contents	<ul style="list-style-type: none">• Access point OAP3000M• Ethernet cable• Mounting kit• Cable gland (IP68)• Quick Installation Guide
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Order Info

OAP3000M	AX3000 Wi-Fi 6 Outdoor Access Point, 2.4/5GHz, 1x2.5GBase-T WAN PoE 802.3at, 1x1000Base-T LAN
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