



OAP1200F

AC1200 Dual-Band Wi-Fi PoE Outdoor Access Point

Wi-Fi 5 (802.11ac), 2.4+5GHz, detachable 5dBi antennas, 2x100Base-TX, 12V DC/Passive PoE, IP65, from -40 to 55 °C, wall/pole mounting



The OAP1200F is an outdoor dual-band AC1200 Wave 2 Wi-Fi access point with Passive PoE support.

The ORIGO OAP1200F access point is designed to build corporate wireless networks for SMBs, including outdoor networks.

The access point is adapted to operate in adverse weather conditions. The housing is protected against dust and water according to the IP65 standard. The operating temperature range is from -40 to 55 °C.

The OAP1200F supports the 802.11ac Wave 2 wireless standard and simultaneous operation in two frequency bands with speeds of up to 300Mbps in the 2.4GHz band and up to 867Mbps in the 5GHz band. MU-MIMO support allows to send data to several devices simultaneously, thus reducing the latency for every client and increasing the overall network capacity.

The OAP1200F supports centralized management via the OWC100 hardware controller, allowing an administrator to quickly configure and monitor up to 128 Wi-Fi access points simultaneously.

The access point is designed for wall or pole mounting. Pole mounts are included in the delivery package. Power can be supplied using a 12V DC¹ adapter or via Passive PoE technology from the injector included in the delivery package.

¹ A power adapter is not included in the delivery package



Key Features

- Centralized management via the OWC100 controller
- AC1200 Wave 2 Wi-Fi: up to 867Mbps in the 5GHz band and up to 300Mbps in the 2.4GHz band
- 1 100Mbps WAN port, 1 100Mbps LAN port
- 2 detachable omnidirectional 5dBi antennas
- IP65-rated housing
- Operating temperature: from -40 to 55 °C
- Surge Protection is up to 4kV; Electrostatic Discharge Protection is up to 8kV
- Passive PoE (injector is included) or 12V DC (power adapter not included in the delivery package)
- Wall/pole mounting



Specifications

Hardware

Processor	<ul style="list-style-type: none">• MT7628DAN (575MHz)
Ports	<ul style="list-style-type: none">• 1 10/100Base-TX WAN port with Passive PoE support• 1 10/100Base-TX LAN port
Antennas	<ul style="list-style-type: none">• 2 detachable omnidirectional 5dBi antennas, RP-SMA (male)
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
Power connector	<ul style="list-style-type: none">• Power input connector (DC)
Housing	<ul style="list-style-type: none">• IP65 protection class
Mounting	<ul style="list-style-type: none">• Pole• Wall

Wireless Module Parameters

Standards	<ul style="list-style-type: none">• IEEE 802.11ac Wave 2• IEEE 802.11a/b/g/n
Frequency range	<ul style="list-style-type: none">• From 2.4GHz to 2.4835GHz• From 5.15GHz to 5.35GHz• From 5.65GHz to 5.85GHz
Wireless connection rate	<ul style="list-style-type: none">• 2.4GHz<ul style="list-style-type: none">- 11n: up to 300Mbps- 11g: up to 54Mbps- 11b: up to 11Mbps• 5GHz<ul style="list-style-type: none">- 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): -85dBm- 11g (54Mbps): -73dBm- 11n (HT20_MCS0): -89dBm- 11n (HT20_MCS7): -71dBm- 11n (HT40_MCS0): -86dBm- 11n (HT40_MCS7): -68dBm• 5GHz<ul style="list-style-type: none">- 11a: -73dBm- 11n (HT20_MCS0): -89dBm- 11n (HT20_MCS7): -71dBm- 11n (HT40_MCS0): -86dBm- 11n (HT40_MCS7): -68dBm- 11ac (VHT80_MCS0): -81dBm- 11ac (VHT80_MCS9): -56dBm

Functionality

Operation modes	<ul style="list-style-type: none">• Router• Access point
Wi-Fi functions	<ul style="list-style-type: none">• MU-MIMO• 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 (Personal)• WPA2 (Personal)
Management	<ul style="list-style-type: none">• Web-based interface• Telnet• Centralized management via controller

Physical Parameters

Device dimensions (L x W x H)	<ul style="list-style-type: none">• 196 x 86 x 40 mm
Device weight	<ul style="list-style-type: none">• 0.4 kg
Package dimensions	<ul style="list-style-type: none">• 26.6 x 11 x 7 cm
Gross weight	<ul style="list-style-type: none">• 0.47 kg

Operating Conditions

Power	<ul style="list-style-type: none">• From PoE injector: 24V, 0.5A• Power adapter (not included in the delivery package)<ul style="list-style-type: none">- Output: 12V DC, 1A
Max Power Consumption	<ul style="list-style-type: none">• 7W
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 OAP1200F• PoE injector• Antennas (2 pcs.)• Ethernet cable• Mounting kit• Quick Installation Guide
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Compatible Equipment

Wi-Fi Access Point Controller	<ul style="list-style-type: none">• OWC100
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Order Info

OAP1200F	<p>AC1200 Wireless Outdoor Access Point, 2.4+5GHz, 1x100Base-TX WAN Passive PoE, 1x100Base-TX LAN</p> <p><i>A PoE injector is included, a power adapter is not included in the delivery package</i></p>
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