



# OAP1200G

## AC1200 Dual-Band Wi-Fi PoE Outdoor Access Point

Wi-Fi 5 (802.11ac), 2.4+5GHz, detachable 5dBi antennas, 2x1000Base-T, 12V DC/802.3af PoE, IP65, from -40 to 55 °C, wall/pole mounting



The OAP1200G is an outdoor dual-band AC1200 Wave 2 Wi-Fi gigabit access point with PoE support.

The ORIGO OAP1200G 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 OAP1200G 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 OAP1200G 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 DC<sup>1</sup> adapter or via PoE technology from a switch or injector that supports the 802.3af standard.

<sup>1</sup> 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 Gigabit WAN port, 1 Gigabit LAN port
- 2 detachable omnidirectional 5dBi antennas
- IP65-rated housing
- Operating temperature: from -40 to 55 °C
- Surge Protection is up to 6kV; Electrostatic Discharge Protection is up to 8kV
- 802.3af PoE or 12V DC (power adapter not included in the delivery package)
- Wall/pole mounting



## Specifications

### Hardware

Processor	<ul style="list-style-type: none"><li>• QCA9563 (750MHz)</li></ul>
Ports	<ul style="list-style-type: none"><li>• 1 10/100/1000Base-T WAN port with PoE support</li><li>• 1 10/100/1000Base-T LAN port</li></ul>
Antennas	<ul style="list-style-type: none"><li>• 2 detachable omnidirectional 5dBi antennas, RP-SMA (male)</li></ul>
MIMO	<ul style="list-style-type: none"><li>• 2x2, MU-MIMO</li></ul>
LEDs	<ul style="list-style-type: none"><li>• WAN</li><li>• LAN</li><li>• SYS</li><li>• 2.4GHz Wi-Fi</li><li>• 5GHz Wi-Fi</li></ul>
Buttons	<ul style="list-style-type: none"><li>• Reset</li></ul>
Power connector	<ul style="list-style-type: none"><li>• Power input connector (DC)</li></ul>
Housing	<ul style="list-style-type: none"><li>• IP65 protection class</li></ul>
Mounting	<ul style="list-style-type: none"><li>• Pole</li><li>• Wall</li></ul>

### Wireless Module Parameters

Standards	<ul style="list-style-type: none"><li>• IEEE 802.11ac Wave 2</li><li>• IEEE 802.11a/b/g/n</li></ul>
Frequency range	<ul style="list-style-type: none"><li>• From 2.4GHz to 2.4835GHz</li><li>• From 5.15GHz to 5.35GHz</li><li>• From 5.65GHz to 5.85GHz</li></ul>
Wireless connection rate	<ul style="list-style-type: none"><li>• 2.4GHz<ul style="list-style-type: none"><li>- 11n: up to 300Mbps</li><li>- 11g: up to 54Mbps</li><li>- 11b: up to 11Mbps</li></ul></li><li>• 5GHz<ul style="list-style-type: none"><li>- 11ac: up to 867Mbps</li><li>- 11n: up to 300Mbps</li><li>- 11a: up to 54Mbps</li></ul></li></ul>
Transmitter output power	<ul style="list-style-type: none"><li>• Less than 20dBm (100mW)</li></ul>
Receiver sensitivity	<ul style="list-style-type: none"><li>• 2.4GHz</li></ul>

- 11b (11Mbps): -83dBm
- 11g (54Mbps): -70dBm
- 11n (HT20\_MCS0): -86dBm
- 11n (HT20\_MCS7): -68dBm
- 11n (HT40\_MCS0): -84dBm
- 11n (HT40\_MCS7): -66dBm
- 5GHz
  - 11a: -70dBm
  - 11n (HT20\_MCS0): -86dBm
  - 11n (HT20\_MCS7): -68dBm
  - 11n (HT40\_MCS0): -84dBm
  - 11n (HT40\_MCS7): -66dBm
  - 11ac (VHT80\_MCS0): -83dBm
  - 11ac (VHT80\_MCS9): -56dBm

## Functionality

Operation modes	<ul style="list-style-type: none"> <li>• Router</li> <li>• Access point</li> <li>• Wi-Fi repeater</li> </ul>
Wi-Fi functions	<ul style="list-style-type: none"> <li>• MU-MIMO</li> <li>• Schedule for Wi-Fi</li> </ul>
Wireless connection security	<ul style="list-style-type: none"> <li>• Multi-SSID</li> <li>• MAC address filtering</li> <li>• SSID broadcast disable</li> <li>• Clients isolation</li> <li>• VLAN</li> <li>• WPA (Personal)</li> <li>• WPA2 (Personal)</li> </ul>
Management	<ul style="list-style-type: none"> <li>• Web-based interface</li> <li>• Telnet</li> <li>• Centralized management via controller</li> </ul>

## Physical Parameters

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



Gross weight	• 0.48 kg
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### Operating Conditions

Power	<ul style="list-style-type: none"><li>• 802.3af PoE</li><li>• Power adapter (not included in the delivery package)<ul style="list-style-type: none"><li>- Output: 12V DC, 1A</li></ul></li></ul>
Max Power Consumption	• 9W
Surge Protection	<ul style="list-style-type: none"><li>• Up to 6kV in common mode</li><li>• Up to 4kV in differential mode</li></ul>
Electrostatic Discharge Protection (ESD)	<ul style="list-style-type: none"><li>• Up to 6kV (contact discharge)</li><li>• Up to 8kV (air discharge)</li></ul>
Temperature	<ul style="list-style-type: none"><li>• Operating: from -40 to 55 °C</li><li>• Storage: from -40 to 70 °C</li></ul>
Humidity	• From 5% to 95% (non-condensing)

### Package Contents

Package Contents	<ul style="list-style-type: none"><li>• Access point OAP1200G</li><li>• Antennas (2 pcs.)</li><li>• Ethernet cable</li><li>• Mounting kit</li><li>• Quick Installation Guide</li></ul>
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### Compatible Equipment

Wi-Fi Access Point Controller	• OWC100
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### Order Info

OAP1200G	AC1200 Wireless Outdoor Access Point, 2.4+5GHz, 1x1000Base-T WAN PoE, 1x1000Base-T LAN <i>A power adapter is not included in the delivery package</i>
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