Powerful Outdoor Solution with High Speed AC900 for Modern Business

OAP900
2 x 2 AC Single-Band Outdoor PoE Access Point

KEY FEATURES

- **802.11AC High Speed**: IEEE 802.11ac with 900Mbps wireless speed.
- **Easy Installation**: Wall-mount or pole-mounted design with easy installation kit.
- **Rugged Construction**: IP65 weatherproof housing can perform normally under rigorous weather.
- **Designed for High Density Usage**: Supports up to fifty users simultaneously, ideal for crowded environments and BYOD (Bring Your Own Device) workplaces.
- **Multiple SSIDs for Security Management**: Supports up to 16 SSIDs ideal for multiple departments, user groups, customers or guests.
- **Fast Roaming**: Roams smoothly between APs without lag or interruption, ensuring top performance for video and voice streaming applications.
- **Wide Coverage & High Sensitivity**: Adjustable RF output power and high receiver sensitivity for wide coverage across large spaces.
- **Seamless Mobility**: 1.5x greater coverage than typical APs for blanket coverage to ensure seamless connectivity for Wi-Fi devices across enterprise environments.
- **Power over Ethernet**: Supports Passive PoE and Passive PoE out.
- **Built-In RADIUS Server**: With management for up to 256 user accounts.
- **Business Environments**: Advanced choice for high-performance applications. Suitable for a wide range of commercial applications such as across university campus, stadiums, outdoor malls, hotels and along side rivers, highways, railways and others.
- **Central Management**: Edimax Pro Network Management Suite (NMS), easy and Intuitive web-based central management suite, supports AP array architecture.

The OAP900 features an IP65 rated weatherproof housing and provides a premium wireless solution designed for SMBs which demand elite network performance. The product features the latest 2 x 2 IEEE 802.11ac technology for 5GHz wireless speeds up to 900Mbps. A wall or pole-mounted design and industrial-grade build quality combined with user-friendly operation and extensive feature set, make an ideal high-performance solution for demanding day-to-day enterprise operations.

For businesses that demand security, flexibility and speed—the Edimax Pro series has a wide range of potential applications from office environments to schools, campuses, hotels and hospitals. Multiple SSIDs can be configured for different departments or user groups and a built-in RADIUS server provides additional verification with a scalable AP array architecture for central management of multiple access points. High-density capacity for up to 50 simultaneous clients ideal for BYOD workplaces or other environments with a high volume of clients and wireless devices, and fast roaming allows for seamless transitions between multiple access points. Power over Ethernet support (passive PoE) and an intuitive web-based management interface provide deployment flexibility and extensive management options for company MIS departments and network administrators.

When performance and security are critical for your business, you need products that are engineered for your industry. The Edimax Pro series is designed to help your business and provide the connectivity that you rely on every day, with safety and effectiveness guaranteed, and the OAP900 offers the highest level of wireless performance on the market today.
Maximal performance, actual data rates, and coverage will vary depending on network conditions and environmental factors. Product specifications and design are subject to change without notice.

Edimax Pro NMS (Network Management Suite) is a web-based wireless network management system. Company MIS administrators can plan and manage Edimax Pro access points’ powerful functionality according to their office space using an easy, remote web-based interface which includes a dashboard, map view, traffic statistics and wireless client list for network-wide remote administration. The OAP900 can be managed by Edimax Pro indoor access points or a standalone Edimax Pro APC500 Controller. RADIUS settings, WLAN group settings, access control, guest network settings and firmware upgrades can all be managed centrally from a single location to reduce network downtime, aid troubleshooting and optimize network performance. Graphical zone plans with Google Maps integration and setup wizards are also available for expanding and managing large networks with multiple access points, with custom floor plans, visual overviews and easy drag-and-drop icons for quick access to key performance and monitoring information.
2 x 2 AC Single-Band Outdoor PoE Access Point

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAN Interface</td>
<td>Giga x 2</td>
</tr>
<tr>
<td>PoE</td>
<td>LAN1: Passive PoE in LAN2: Passive PoE out</td>
</tr>
<tr>
<td>Antenna</td>
<td>Type: Internal / Gain: 14dBi Patch Antenna (5GHz) SMA Connector x 2 for External Antennas</td>
</tr>
<tr>
<td>Power</td>
<td>48V Passive PoE</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>27.18 x 12.09 x 3.5 cm</td>
</tr>
<tr>
<td>Weight</td>
<td>592g</td>
</tr>
<tr>
<td>Power Consumption (Full Loading)</td>
<td>10.6W</td>
</tr>
<tr>
<td>Mounting</td>
<td>Pole/Wall</td>
</tr>
<tr>
<td>Slide Switch/Reset</td>
<td>LAN2 PSE-OUT Power On/Off, Reset</td>
</tr>
<tr>
<td>LED Indicator</td>
<td>Power, LAN1, LAN2, Strength, Signal, RSSI, 5G</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>Operating Temperature: -20°C (-4°F) to 60°C (140°F) Storage Temperature: -30°C (-22°F) to 70°C (158°F) Operating Humidity: 90% or Less Storage Humidity: 90% or Less</td>
</tr>
<tr>
<td>Power Saving</td>
<td>802.3az</td>
</tr>
<tr>
<td>Internal Buzzer</td>
<td>Y</td>
</tr>
<tr>
<td>Housing</td>
<td>Outdoor IP65 Weatherproof Rated</td>
</tr>
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</table>

**Wireless**

- **Standard**: 802.11 a/n/ac
- **No. of Radios**: 1
- **Receiver Sensitivity**: ≤ -89dBm
- **Certification**: CE/FCC
- **Fast Roaming**: Y
- **Number of SSIDs**: 16 (5GHz)

**Performance**

- **Maximum Data Speed**: 866Mbps
- **Concurrent Clients**: Up to 50 Per Radio

**Security**

- **Encryption**: WEP / WPA / WPA2
- **Wireless L2 Isolation**: Y
- **Station Isolation**: Y
- **IEEE 802.1x Authenticator**: Y
- **EAP Authentication**: PEAP
- **Hidden SSID**: Y
- **MAC Address Filter**: Y
- **Wireless STA**: Y
- **Rogue AP Detection (w/ NMS)**: Y

**Software**

- **Wireless Mode**: AP / WDS AP / WDS Bridge / Client
- **802.1q VLAN**: Y (VID = 1-4095)
- **Spanning Tree**: RSTP
- **QoS**: WMM (802.11e) Max Associated Station No.
- **Pass-Through**: IPv6 and VPN (PPTP, L2TP/IPsec)
- **DSCP (802.1p)**: Y
- **Multicast Rate up to**: 54Mbps

**RF Specifications**

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>• Radio: 1: 802.11a/n/ac, 5.18-5.24GHz, 5.26-5.32GHz, 5.5-5.7GHz, 5.745-5.785GHz (The supported frequency band is restricted by local regulations.)</th>
</tr>
</thead>
</table>

**Transmit Power**

- 802.11a: 22dBm@6Mbp, 22dBm@11Mbp, 22dBm@12Mbp, 22dBm@18Mbp, 23dBm@24Mbp, 21dBm@36Mbp, 19dBm@48Mbp, 18dBm@54Mbp
- 802.11n(5G): 25dBm/MCS0/8, 24dBm/MCS1/9, 24dBm/MCS2/10, 23dBm/MCS3/11, 23dBm/MCS4/12, 23dBm/MCS5/13, 21dBm/MCS6/14, 21dBm/MCS7/15, 20dBm/MCS8
- 802.11ac: 25dBm/MCS0, 24dBm/MCS1, 24dBm/MCS2, 24dBm/MCS3, 23dBm/MCS4, 23dBm/MCS5, 22dBm/MCS6, 21dBm/MCS7, 20dBm/MCS8, 19dBm/MCS9

**Receiver Sensitivity**

- 802.11a: ≤ -65dBm/6Mbp ≤ -72dBm/11Mbp ≤ -70dBm/12Mbp ≤ -65dBm/18Mbp ≤ -60dBm/24Mbp ≤ -55dBm/36Mbp ≤ -50dBm/48Mbp ≤ -45dBm/54Mbp ≤ -40dBm/54Mbp/8 ≤ -89dBm/MCS0 ≤ -86dBm/MCS1 ≤ -86dBm/MCS2 ≤ -86dBm/MCS3 ≤ -86dBm/MCS4 ≤ -86dBm/MCS5 ≤ -86dBm/MCS6 ≤ -86dBm/MCS7 ≤ -86dBm/MCS8 ≤ -86dBm/MCS9 ≤ -56dBm/MCS9

**Management**

- **Standalone (AP mode)**
- **Deployment**: Managed AP mode: Be managed by AP Controller (APC500) or Edimax Pro Master AP

**Configuration**

- **HTTP/HTTPS**: SNMP v1, v2c, v3
- **CLI (Telnet, SSH)**

**RADIUS Server**: Built-In

**Auto-Channel**: Y

**Private MIB**: Y

**Accessories**

- **Mounting Brackets**
- **Wall-Mount & Pole-Mount Screws Kit**
- **PoE Injector**
- **Passive PoE Injector**
- **Power Adapter**: 48V/1A

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