

Powerful Outdoor Solution with High Speed AC900 for Modern Business

OAP900

2 x 2 AC Single-Band Outdoor PoE Access Point / Video Bridge



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:** IP55 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.
- Outdoor Video Bridge:** Dedicated PoE output port to power a 802.3af PoE IP camera.
- 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 and software, support AP array architecture.

The OAP900 features an IP55 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.

Outdoor BYOD Solution & High Density Networking

Wide Coverage & Multiple SSIDs

- SSID=Staff VLAN=1: 5M/3M bps
- SSID=Guest VLAN=3: 1M/512K bps
- SSID=Student VLAN=2: 3M/1M bps

AC900 5GHz Super High-Speed

IP55 Weatherproof & Dustproof

Fast Roaming

PoE Out to Supply Power to PoE PD

OAP900 Outdoor Video Bridge

802.3af PoE IP Camera

Switch

Data

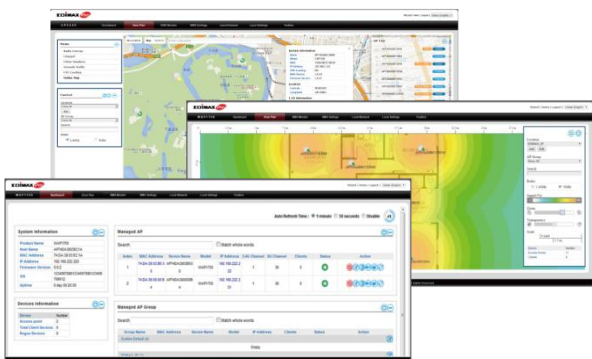
Passive PoE Injector

PoE OUT PoE IN

48V

5GHz 2D Radiation Pattern @ Vertical

5GHz 2D Radiation Pattern @ Horizontal



Central Network Management: NMS

Work with Edimax Pro NMS (Network Management Suite)* web-based wireless network management software. 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. 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.

*NMS is built-in with Edimax Pro CAP, WAP series & OAP1750 access point.

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SPECIFICATIONS

Hardware	
LAN Interface	Giga x 2
PoE	LAN1: Passive PoE in LAN2: Passive PoE out
Antenna	Type: Internal / Gain: 14dBi Patch Antenna (5GHz) HPBW / V: 18 ± 1°, HPBW / H: 33 ± 5 SMA Connector x 2 for External Antennas
Power	48V Passive PoE
Dimensions (L x W x H)	27.18 x 12.09 x 3.5 cm
Weight	592g
Power Consumption (Full Loading)	10.6W
Mounting	Pole/Wall
Slide Switch/Reset	LAN2 PSE-OUT Power On/Off, Reset
LED Indicator	Power, LAN1, LAN2, Strength, Signal, RSSI, 5G
Environmental Conditions	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
Power Saving	802.3az
Internal Buzzer	Y
Housing	Outdoor IP55 Weatherproof Rated
Wireless	
Standard	802.11 a/an/ac
No. of Radios	1
Receiver Sensitivity	≤ -89Bm
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	Y

RF Specifications	
Frequency Band	•Radio 1 : 802.11a/n/ac 5.18~5.24(GHz), 5.26~5.32(GHz), 5.5~5.7(GHz), 5.745~5.825(GHz) (The supported frequency band is restricted by local regulations.)
Operation Channels	•5GHz : Country dependent for the following ranges: US/Canada: Band 1:36, 40, 44, 48; 5.180~5.240(GHz) Band 2: 52, 56, 60, 64;5.260~5.320(GHz) Band 3: 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140;5.500~5700(GHz) Band 4:149, 153, 157, 161, 165; 5.745~5.825(GHz) Europe: Band 3: 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140; 5.500~5700(GHz)
Transmit Power (CE: 20dBm or lower, FCC:23dBm or lower)	802.11a 22dBm @6Mbps 22dBm @9Mbps 22dBm @12Mbps 22dBm @18Mbps 22dBm @24Mbps 21dBm @36Mbps 19dBm @48Mbps 18dBm @54Mbps 802.11an(5G) 25dBm @MCS0/8 24dBm @MCS1/9 24dBm @MCS2/10 23dBm @MCS3/11 23dBm @MCS4/12 22dBm @MCS5/13 22dBm @MCS6/14 21dBm @MCS7/15 802.11ac 25dBm @MCS0 24dBm @MCS1 24dBm @MCS2 23dBm @MCS3 23dBm @MCS4 22dBm @MCS5 22dBm @MCS6 21dBm @MCS7 20dBm @MCS8 19dBm @MCS9
Receiver Sensitivity	802.11a ≤-89dBm@6Mbp ≤-72dBm@54Mbps 802.11an(5G) ≤-89dBm@MCS0 ≤-68dBm@MCS7 ≤-86dBm@MCS8 ≤-66dBm@MCS15 802.11ac ≤-83dBm@MCS0 ≤-56dBm@MCS9
Management	
Deployment	Standalone (AP mode)
	Managed AP mode: Be managed by AP Controller (APC500), Edimax Pro Master AP with NMS software
Configuration	HTTP/HTTPS
	SNMP v1, v2c, v3
	CLI (Telnet, SSH)
RADIUS Server	Built-In
Auto-Channel	Y
Private MIB	Y
Package Contents	
Access Point	AC900 Outdoor PoE Access Point
PoE Injector	Passive PoE Injector with Power Code
Mounting Bracket	Wall-Mount & Pole-Mount Bracket and Screws Kit
Power Adapter	48V / 1A Power Adapter
Cable	Ethernet Cable
CD / Quick Installation Guide	CD (User Manual & Multi-Language Quick Installation Guide) / Printed English Quick Installation Guide



Maximum 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. Copyright © 2016 Edimax Technology Co. Ltd. All rights reserved.

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