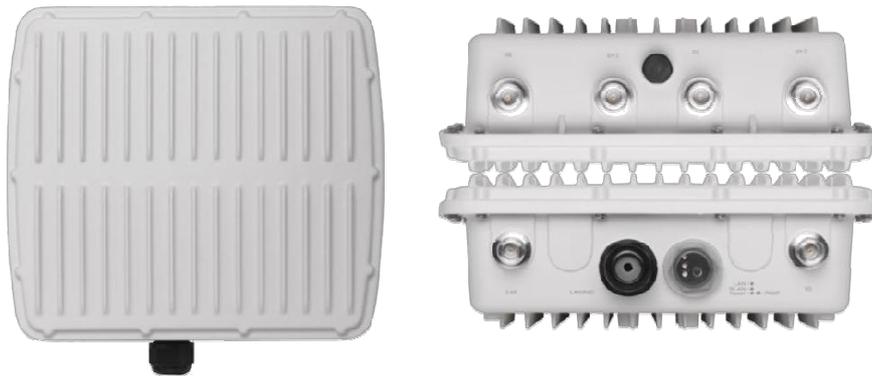![EDIMAX Pro]

Premium Outdoor Solution with Super-High Speed AC1750 for Elite Performance

OAP1750

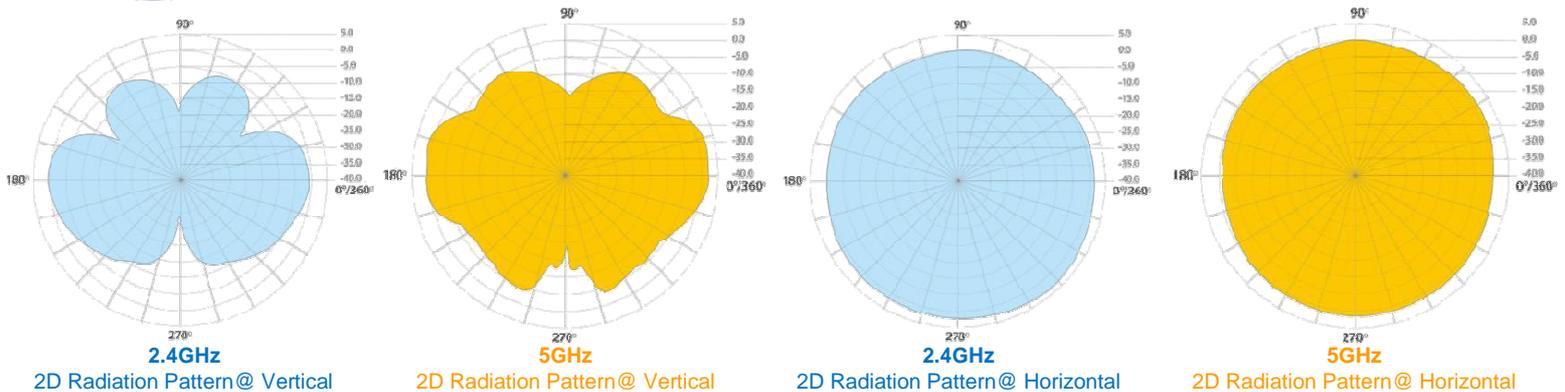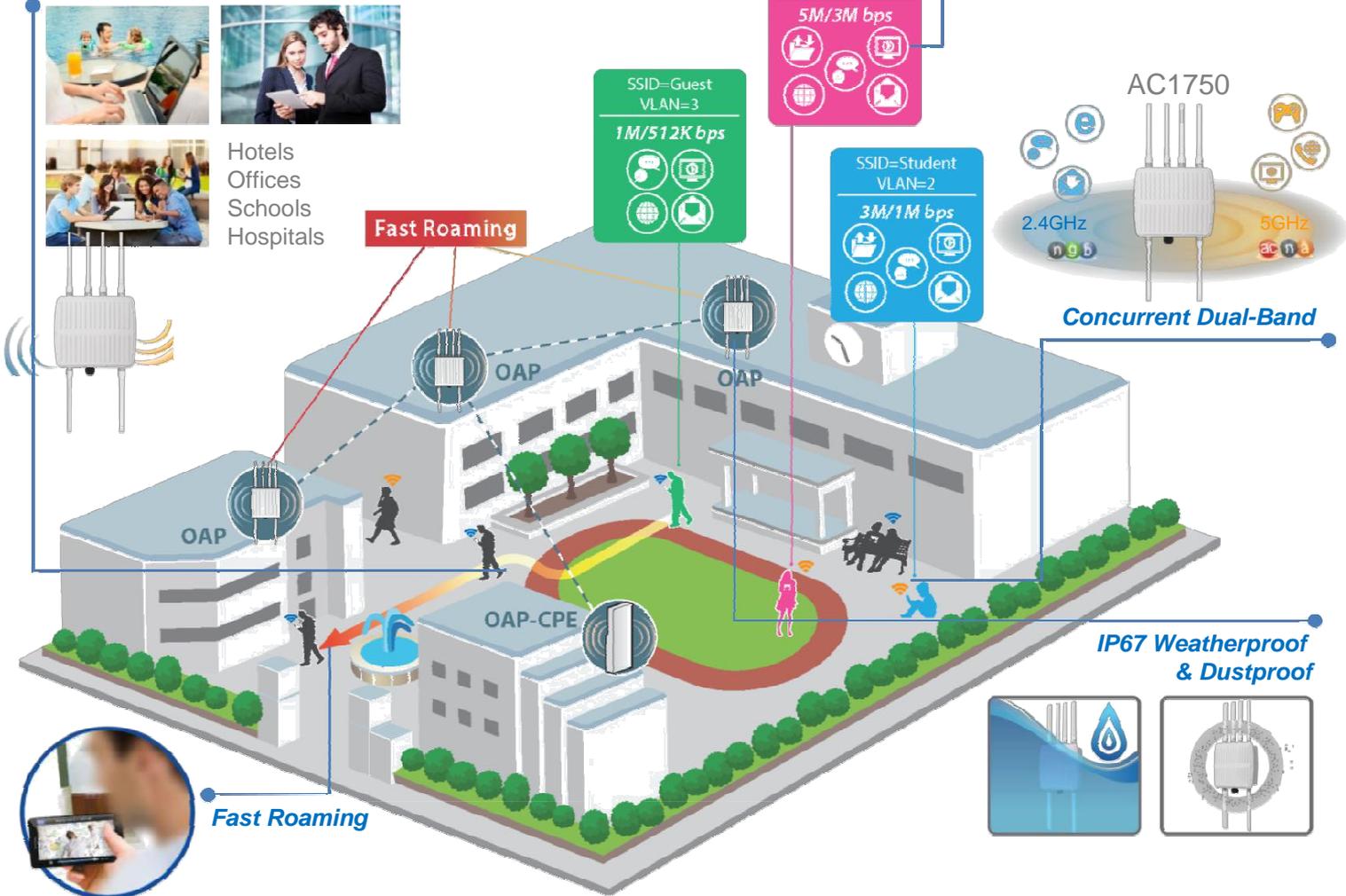### *3 x 3 AC Dual-Band Outdoor PoE Access Point*

KEY FEATURES

•**802.11AC Dual-Band High Speed:** IEEE 802.11ac concurrent dual-band with 1750Mbps wireless speed. •**Easy Installation:** Wall-mount or pole-mounted design with easy installation kit.

•**Rugged Construction:** IP67 weatherproof & dustproof housing and die-cast aluminum, corrosion resistant enclosure, salt, fog, rust ASTM B117 weather shield to survive the most challenging environments.

•**Designed for High Density Usage:** Supports up to a hundred users simultaneously, ideal for crowded environments and BYOD (Bring Your Own Device) workplaces.

•**Multiple SSIDs for Security Management:** Supports up to 32 SSIDs (16 x 2.4GHz & 16 x 5GHz) 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 IEEE 802.3at PoE. •**Built-In RADIUS Server:** With management for up to 256 user accounts.

•**Business Outdoor 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 OAP1750 features an IP67 rated weatherproof, dustproof and rust-resistant metal casted housing and provides a premium wireless solution designed for SMBs which demand elite network performance. The product features the latest 3 x 3 IEEE 802.11ac technology for concurrent dual-band wireless speeds up to 1750Mbps. 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 dual-band 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 100 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 (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 OAP1750 offers the highest level of wireless performance on the market today.

Outdoor BYOD Solution & High Density Networking

Hotels
Offices
Schools
Hospitals

Fast Roaming

SSID=Guest
VLAN=3
1M/512K bps

SSID=Staff
VLAN=1
5M/3M bps

SSID=Student
VLAN=2
3M/1M bps

Wide Coverage & Multiple SSIDs

AC1750

2.4GHz   5GHz

Concurrent Dual-Band

OAP

OAP

OAP

OAP-CPE

IP67 Weatherproof & Dustproof

Fast Roaming

2.4GHz
2D Radiation Pattern@ Vertical

5GHz
2D Radiation Pattern@ Vertical

2.4GHz
2D Radiation Pattern@ Horizontal

5GHz
2D Radiation Pattern@ Horizontal

Central Network Management Suite

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 OAP1750 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.

3 x 3 AC Dual-Band Outdoor PoE Access Point

SPECIFICATIONS

Hardware	
LAN Interface	Giga x 1
PoE	802.3at
Antenna	Type: 3 x External / Gain: 2.4G Gain 3.56dBi , 5G Gain 5.6dBi
Power	802.3at (PoE Injector Optional)
Dimensions (L x W x H)	25.67 x 22.67 x 9.03 cm
Weight	2980g
Power Consumption (Full Loading)	22W
Mounting	Pole/Wall
WPS/Reset	Reset
LED Indicator	1. Power LED 2. WLAN LED 3. LAN LED
Environmental Conditions	Operating Temperature: -40℃ (-40℉) to 70℃ (158℉) StorageTemperature: -40℃ (-40℉) to 80℃ (176℉) Operating Humidity: 90% or Less Storage Humidity: 90% or Less
Power Saving	802.3az
Internal Buzzer	Y
Housing	Outdoor IP67 rated, die-cast aluminum, corrosion resistant enclosure, salt, fog, rust ASTM B117

Wireless	
Standard	802.11 a/b/g/n/ac Concurrent Dual-Band
No. of Radios	2
Receiver Sensitivity	≤ -94.5Bm
Certification	CE/FCC
Fast Roaming	Y
Number of SSIDs	16 (2.4GHz) + 16 (5GHz)

Performance	
Maximum Data Speed	450 + 1300Mbps
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 Ⅰ: 802.11b/g/n 2.412~2.462(GHz) •Radio Ⅱ: 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	•2.4GHz : US/Canada 1-11; 2.412~2.462GHz Europe 1-13; 2.412~2.472GHz Japan 1-14; 2.412~2.484GHz •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	2.4GHz:917.239mW	5180~5240MHz:31.559mW 5745~5825MHz:631.147mW
Receiver Sensitivity	802.11b ≤-93dBm@1Mbps ≤-90dBm@11Mbps 802.11g ≤-90dBm@6Mbps ≤-74dBm@54Mbps 802.11gn (2.4G) ≤-94.5dBm@MCS0 ≤-76.5dBm@MCS7 ≤-90dBm@MCS8 ≤-72dBm@MCS15 ≤-90dBm@MCS16 ≤-72dBm@MCS23	802.11a ≤-90dBm@6Mbp ≤-72dBm@54Mbps 802.11an(5G) ≤-94.5dBm@MCS0 ≤-70.5dBm@MCS7 ≤-90dBm@MCS8 ≤-66dBm@MCS15 ≤-90dBm@MCS16 ≤-66dBm@MCS23 802.11ac ≤ -90.5dBm@MCS0 ≤ -60.5dBm@MCS9

Management	
Deployment	**Standalone** (AP mode)
	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 Bracket Kit
Antennas	2.4GHz Omni x 3 5GHz Omni x 3
Optional Accessories	**GP-101IT** IEEE802.3at PoE Injector **ANT-2412D1/D2** Directional Panel Antenna 2.4GHz **ANT-5815D1/D2** Directional Panel Antenna 5GHz **LT-610** Outdoor Lightning Arrester

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

-        Reorient or relocate the receiving antenna.
-        Increase the separation between the equipment and receiver.
-        Connect the equipment into an outlet on a circuit different from that
    to which the receiver is connected.
-        Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The band from 5600-5650MHz will be disabled by the software during the manufacturing and cannot be changed by the end user. This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 34cm between the radiator & your body.

Professional installation instruction

1. Installation personal

     This product is designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.

2. Installation location

     The product shall be installed at a location where the radiating antenna can be kept 34cm from nearby person in normal operation condition to meet regulatory RF exposure requirement.

3. External antenna

     Use only the antennas which have been approved by the applicant. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power which may lead to the violation of FCC limit and is prohibited.

4. Installation procedure

     Please refer to user's manual for the detail.

5. Warning

     Please carefully select the installation position and make sure that the final output power does not exceed the limit set force in relevant rules. The violation of the rule could lead to serious federal penalty.

Instructions d'installation professionnelle

1. Installation

    Ce produit est destine a un usage specifique et doit etre installe par un personnel qualifie maitrisant les radiofrequences et les regles s'y rapportant. L'installation et les reglages ne doivent pas etre modifies par l'utilisateur final.

2. Emplacement d'installation

    En usage normal, afin de respecter les exigences reglementaires concernant l'exposition aux radiofrequences, ce produit doit etre installe de facon a respecter une distance de 34cm entre l'antenne emettrice et les personnes.

3. Antenn externe.

    Utiliser uniiquement les antennes approuvees par le fabricant. L'utilisation d'autres antennes peut conduire a un niveau de rayonnement essentiel ou non essentiel depassant les niveaux limites definis par FCC/IC, ce qui est interdit.

4. Procedure d'installation

    Consulter le manuel d'utilisation.

5. Avertissement

    Choisir avec soin la position d'installation et s'assurer que la puissance de sortie ne depasse pas les limites en vigueur. La violation de cette regle peut conduire a de serieuses penalites federales.

Anenna spec.
Brand:Whayu
Model:C059-510309-A
Connector:N-type plug
Gain :2.4G Gain:3.56dBi , 5G Gain :5.6dBi

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