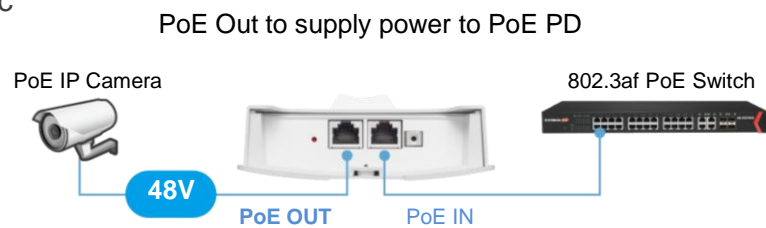# AC1300 Wave 2 Dual-Band PoE Outdoor Add-on Access Point
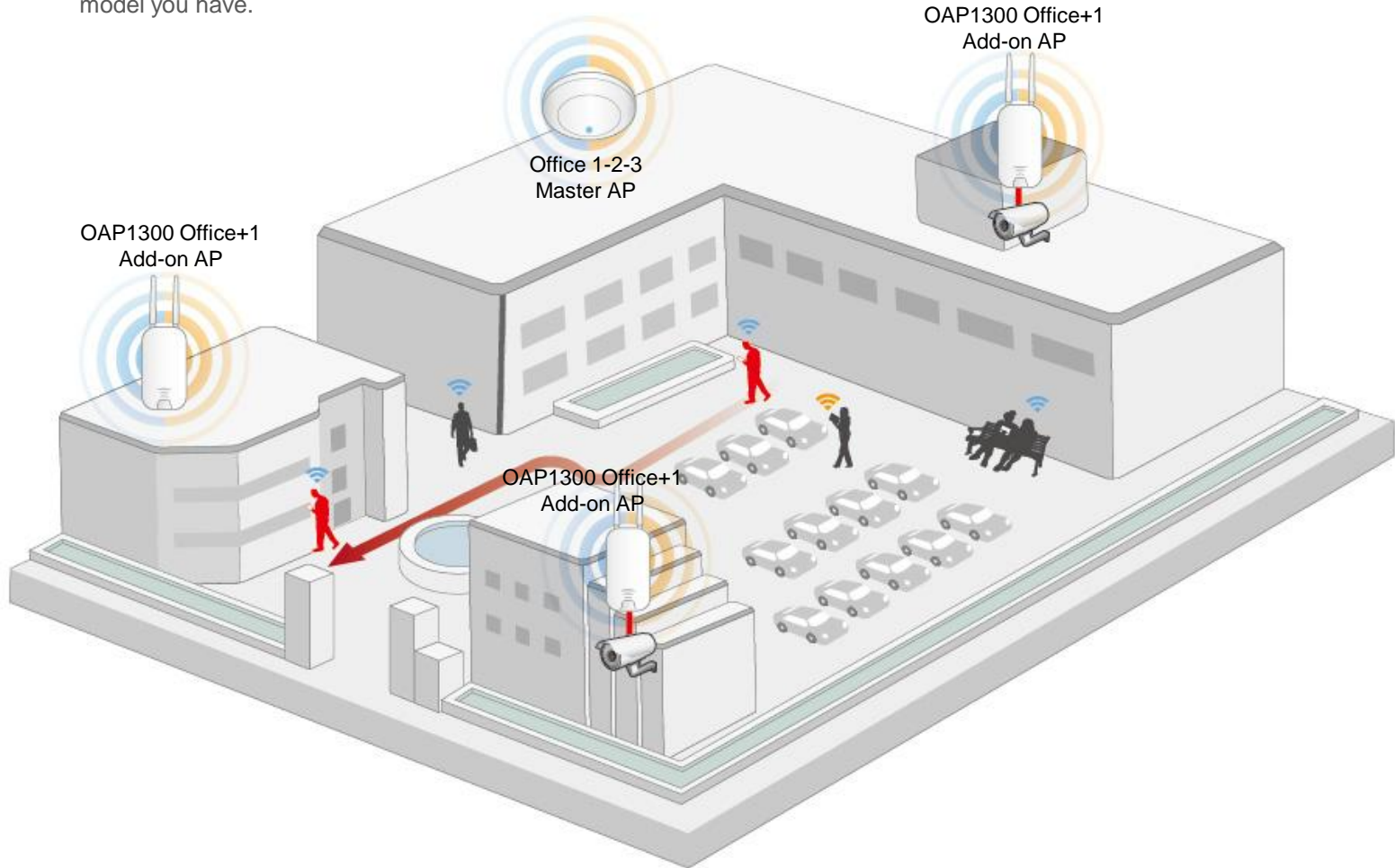
OAP1300 Office +1

KEY FEATURES

•**802.11ac High Speed Dual-Band:** IEEE 802.11ac concurrent dual-band with 1300Mbps wireless speed.

•**Multi-Device (MU-MIMO):** Efficient MU-MIMO (Multiple User - Multiple Input Multiple Output) technology serves multiple devices simultaneously.

•**Easy Installation:** Wall-mount or pole-mounted design with easy installation kit.

•**Rugged Construction:** IP56 weatherproof housing can perform normally under rigorous weather.

•**Designed for High Density Usage:** Supports up to two hundred users simultaneously (one hundred users per band), ideal for crowded environments and BYOE (Bring Your Own Everything) workplace Wi-Fi connection.

•**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.

•**Beamforming & Airtime Fairness:** Significantly improves Wi-Fi range and performance.

PoE Out to supply power to PoE PD

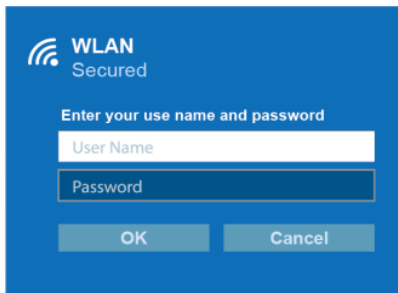PoE IP Camera   802.3af PoE Switch

48V   **PoE OUT**   PoE IN

•**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 In/Out:** Supports IEEE 802.3at PoE and IEEE 802.3af PSE, PoE out (802.3af) to power another PoE device such as IP camera or outdoor AP.

•**Built-in Lighting Arrester:** Built-in withstands up to 10 kA current provides lightning protection for your wireless equipment.

•**Built-In RADIUS Server:** With management for up to 256 user accounts.

•**Central Management:** Edimax Pro Network Management Suite (NMS) for easy and intuitive web-based central management that supports AP array architecture.

•**Only Works with Office 1-2-3 Wi-Fi System Master AP**: With upgradeable firmware for full Office 1-2-3 system compatibility, the integration supports guest, employee and device networks to offer a perfect solution for Office with outdoor area or warehouse.

OUTDOOR APPLICATION

OAP1300 Office+1 only works with Office 1-2-3 Wi-Fi System Master AP. Please check the color box label to see what model you have.

OAP1300 Office+1
Add-on AP

Office 1-2-3
Master AP

OAP1300 Office+1
Add-on AP

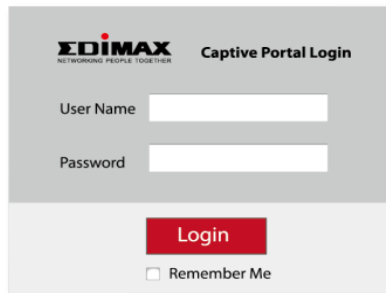OAP1300 Office+1
Add-on AP

Office Network

Each employee has his/her own Wi-Fi access account and password.
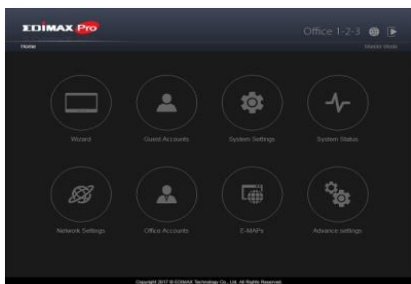
Guest Network

Login to guest network via captive portal and SMS authentication.

Device Network

Device Name	MAC Address
IPCAM1	00:34:45:66:1A:01
IPCAM2	00:34:45:66:1A:02
IPCAM3	00:34:45:66:1A:03
Printer1	00:34:45:66:1A:04
Printer2	00:34:45:66:1A:05

Access Control List (ACL) to manage wireless equipment.
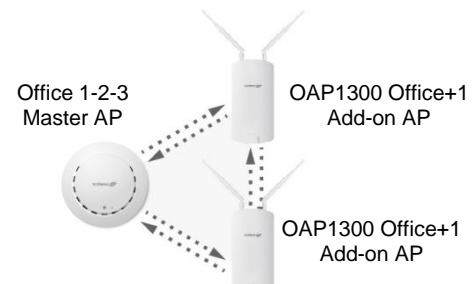
Intuitive UI

The icon based interface quickly setup networks in a few steps.

E-MAP

Shows wireless coverage and status of your APs on E-MAP.

Self Management

Office 1-2-3
Master AP

OAP1300 Office+1
Add-on AP

OAP1300 Office+1
Add-on AP

The AP is pre-configured and self-managed for easy setup.

AC1300 Wave 2 Dual-Band PoE Outdoor Add-on Access Point

SPECIFICATIONS

Hardware	
LAN Interface	Giga x 2
PoE	LAN1: PoE IN (802.3af/at) LAN2: PoE OUT (802.3af)
Antenna	Type: 2 x External Gain: 3.9dBi (2.4GHz), 4.4dBi (5GHz)
Power	802.3at (PoE Injector Optional)
Dimensions (L x W x H)	27.18 x 12.09 x 3.5 cm
Weight	592g
Power Consumption (Full Loading)	15W
Mounting	Pole/Wall
Reset	Reset
LED Indicator	Power, Status, LAN(PD) , LAN(PSE), 2.4G, 5G
Environmental Conditions	Operating Temperature: -40°C (-40°F) to 60°C (140°F) Operating Humidity: 90% or Less
Power Saving	802.3az
Internal Buzzer	Y
Housing	Outdoor IP56 Weatherproof Rated

Wireless	
Standard	802.11 a/b/g/n/ac Concurrent Dual-Band
No. of Radios	2
Receiver Sensitivity	≤ -93Bm
Certification	CE/FCC
Fast Roaming	Y
Number of SSIDs	16 (2.4GHz) + 16 (5GHz)

Performance	
Maximum Data Speed	400 + 866Mbps
Concurrent Clients	Up to 100 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 2.412~2.484(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

802.11b	802.11a
20dBm@1Mbps	20dBm@6Mbps
20dBm@2Mbps	20dBm@9Mbps
20dBm@5.5Mbps	20dBm@12Mbps
20dBm@11Mbps	19dBm@18Mbps
802.11g	19dBm@24Mbps
20dBm@6Mbps	18dBm@36Mbps
20dBm@9Mbps	17dBm@48Mbps
20dBm@12Mbps	16dBm@54Mbps
19dBm@18Mbps	**802.11an(5G)**
19dBm@24Mbps	20dBm@MCS0/8
18dBm@36Mbps	20dBm@MCS1/9
17dBm@48Mbps	19dBm@MCS2/10
17dBm@54Mbps	19dBm@MCS3/11
802.11gn (2.4G)	18dBm@MCS4/12
20dBm@MCS0/8	17dBm@MCS5/13
20dBm@MCS1/9	16dBm@MCS6/14
20dBm@MCS2/10	15dBm@MCS7/15
19dBm@MCS3/11	**802.11ac**
19dBm@MCS4/12	20dBm@MCS0
18dBm@MCS5/13	20dBm@MCS1
17dBm@MCS6/14	20dBm@MCS2
17dBm@MCS7/15	19dBm@MCS3
	19dBm@MCS4
	18dBm@MCS5
	17dBm@MCS6
	17dBm@MCS7
	17dBm@MCS8
	15dBm@MCS9

Receiver Sensitivity

802.11b	802.11a
≤-93dBm@1Mbps	≤-85dBm@6Mbp
≤-85dBm@11Mbps	≤-68dBm@54Mbps
802.11g	**802.11an(5G)**
≤-86dBm@6Mbps	≤-85dBm@MCS0
≤-70dBm@54Mbps	≤-64dBm@MCS7
802.11gn (2.4G)	**802.11ac**
≤-86dBm@MCS0	≤ -85dBm@MCS0
≤-62dBm@MCS8	≤ -61dBm@MCS8
≤-57dBm@MCS9	≤ -54dBm@MCS9

Management	
Deployment	**Standalone** (AP mode) **Managed AP mode**: 1) Managed by AP Controller (APC500) or Edimax Pro Master AP 2) Managed by Office 1-2-3 Master AP (with dedicated firmware)
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 /5GHz Omni x 2
Optional Accessories	**GP-101IT**　　　IEEE802.3at PoE Injector

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