EDIMAX Pro

Premium Solution with Super-High Speed AC1750 for Elite Performance

WAP1750

3 x 3 AC Dual-Band Wall-Mount PoE Access Point

The WAP1750 is 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-mounted design and industrial-grade build quality combined with user-friendly operation and an extensive feature set, make an ideal high-performance dual-band solution for demanding day-to-day enterprise operations.
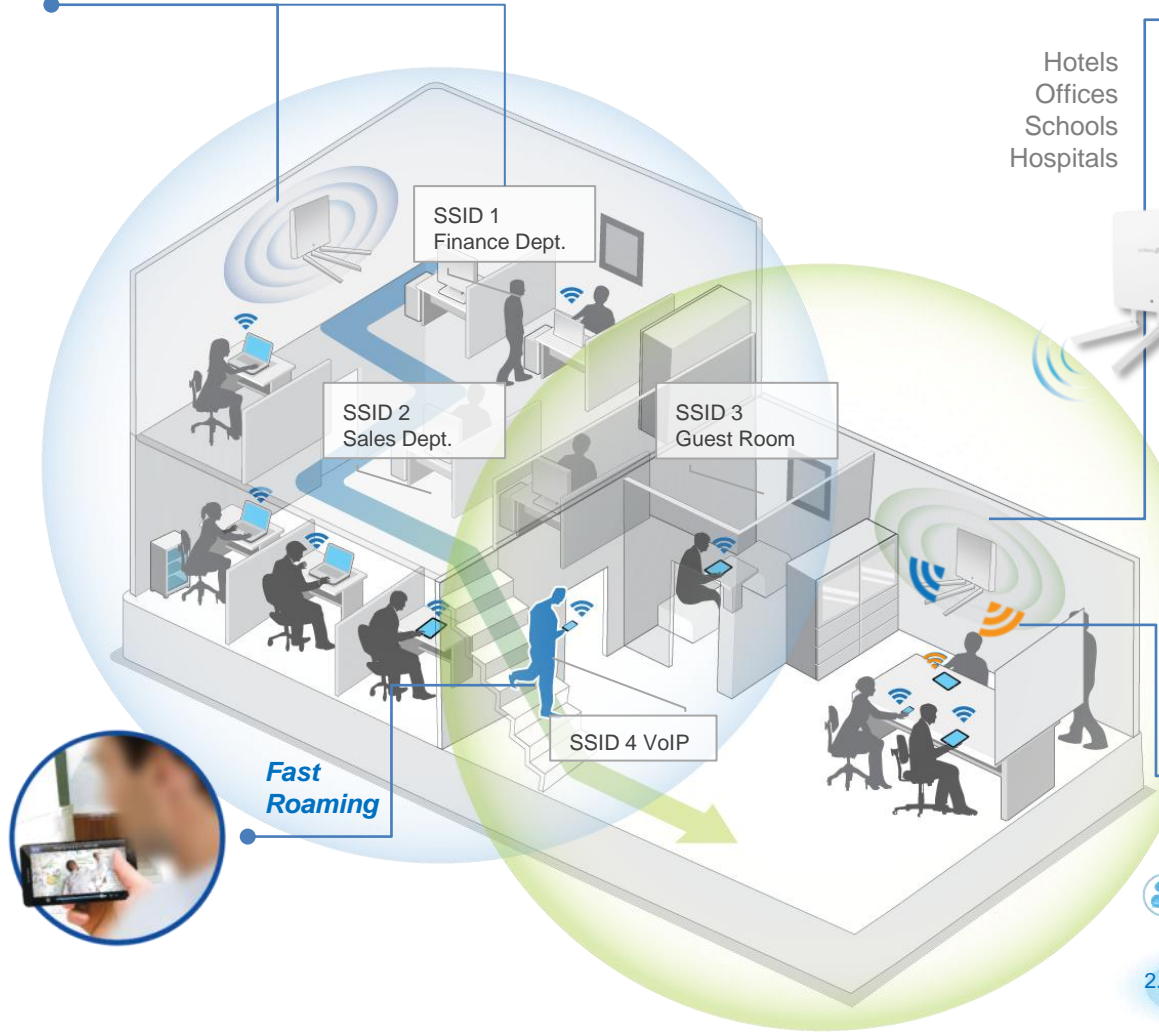
For businesses that demand security, flexibility and speed – the Edimax Pro series has a wide range of potential applications from office environments to schools, campuses, hotels and hospitals. Multiple SSIDs can be configured for different departments or user groups and a built-in RADIUS server provides 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. An optional security cover also prevents physical theft or tampering, along with a rogue AP detection function to safeguard your network from unauthorized access.

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 WAP1750 offers the highest level of wireless performance on the market today.
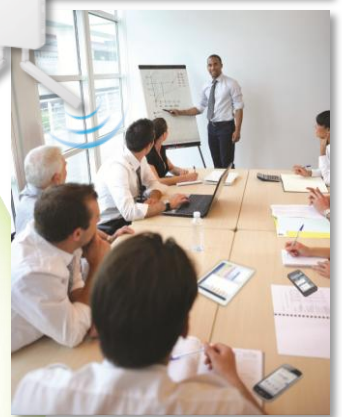
KEY FEATURES

•**802.11AC Dual-Band High Speed:** IEEE 802.11ac concurrent dual-band with 1750Mbps wireless speed.

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

•**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 and IEEE 802.3af PSE out as well as included power adapter.

•**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 offices, hotels, meeting rooms, schools, campuses, resorts, retail and others.

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

•**Optional Security Cover:** Prevents theft and tampering.

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Wide Coverage & Multiple SSIDs

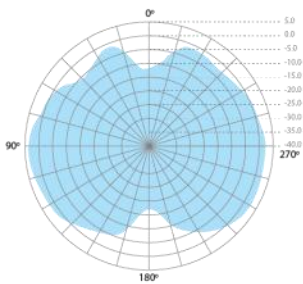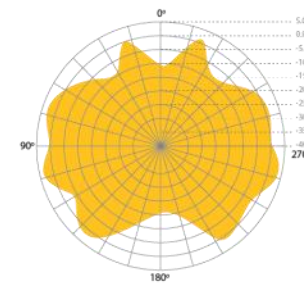## BYOD Solution & High Density Networking

Hotels
Offices
Schools
Hospitals

SSID 1
Finance Dept.

SSID 2
Sales Dept.

SSID 3
Guest Room

SSID 4 VoIP

Fast Roaming

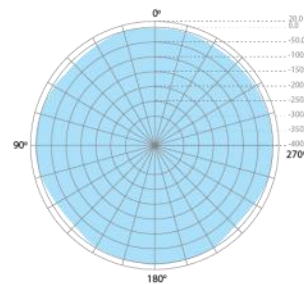### Current Dual-Band

AC1750

2.4GHz
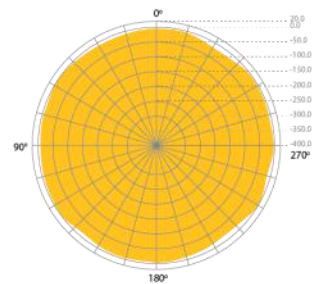n g b

5GHz
ac n a

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 persons 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. Zone plans and setup wizards are also available for expanding and managing large networks with multiple access points.

# 3 x 3 AC Dual-Band Wall-Mount PoE Access Point

SPECIFICATIONS

Hardware

LAN Interface	Giga x 2
PoE	802.3at (in) / 802.3af (out)
Antenna	Type: 3 x External / Gain: 2dBi (2.4GHz), 2dBi (5GHz)
Power	DC: 12V / 4A 802.3at (PoE Injector Optional)
Dimensions (L x W x H)	18.3 x 18.3 x 3.6 cm
Weight	560g
Power Consumption (Full Loading)	15W (Exclude PoE-Out)
Mounting	Wall / Desktop
Console	RJ45
WPS/Reset	Y
LED Indicator	1. Power LED 2. Diag LED
Environmental Conditions	Operating Temperature: 0°C (32°F) to 50°C (122°F) Operating Humidity: 90% or Less
Power Saving	802.3az
Internal Buzzer	Y

Wireless

Standard	802.11 a/b/g/n/ac Concurrent Dual-Band
No. of Radios	2
Receiver Sensitivity	≤ -94.5dBm
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
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), 5.745~5.825(GHz) (The supported frequency band is restricted by local regulations.)
Operation Channels	•2.4GHz : US/Canada 1-11 / Europe 1-13 / Japan 1-14 •5GHz : Country dependent for the following ranges: 36, 40, 44, 48, 149, 153, 157, 161, 165

Transmit Power

802.11b	802.11a
23dBm@1Mbps	22dBm@6Mbps
23dBm@2Mbps	22dBm@9Mbps
23dBm@5.5Mbps	22dBm@12Mbps
23dBm@11Mbps	22dBm@18Mbps
802.11g	22dBm@24Mbps
23dBm@6Mbps	21dBm@36Mbps
23dBm@9Mbps	19dBm@48Mbps
23dBm@12Mbps	18dBm@54Mbps
23dBm@18Mbps	802.11an(5G)
23dBm@24Mbps	27.5dBm@MCS0/8/16
22dBm@36Mbps	26.5dBm@MCS1/9/17
20dBm@48Mbps	26.5dBm@MCS2/10/18
19dBm@54Mbps	25.5dBm@MCS3/11/19
802.11gn (2.4G)	25.5dBm@MCS4/12/20
27.5dBm@MCS0/8/16	24.5dBm@MCS5/13/21
26.5dBm@MCS1/9/17	23.5dBm@MCS6/14/22
26.5dBm@MCS2/10/18	22.5dBm@MCS7/15/23
26.5dBm@MCS3/11/19	802.11ac
25.5dBm@MCS4/12/20	27.5dBm@MCS0
24.5dBm@MCS5/13/21	26.5dBm@MCS1
23.5dBm@MCS6/14/22	26.5dBm@MCS2
22.5dBm@MCS7/15/23	25.5dBm@MCS3
	25.5dBm@MCS4
	24.5dBm@MCS5
	23.5dBm@MCS6
	22.5dBm@MCS7
	20.5dBm@MCS8
	19.5dBm@MCS9

Receiver Sensitivity

802.11b	802.11a
≤-93dBm@1Mbps	≤-90dBm@6Mbp
≤-90dBm@11Mbps	≤-72dBm@54Mbps
802.11g	802.11an(5G)
≤-90dBm@6Mbps	≤-94.5dBm@MCS0
≤-74dBm@54Mbps	≤-70.5dBm@MCS7
802.11gn (2.4G)	≤-90dBm@MCS8
≤-94.5dBm@MCS0	≤-66dBm@MCS15
≤-76.5dBm@MCS7	≤-90dBm@MCS16
≤-90dBm@MCS8	≤-66dBm@MCS23
≤-72dBm@MCS15	802.11ac
≤-90dBm@MCS16	≤ -90.5dBm@MCS0
≤-72dBm@MCS23	≤ -60.5dBm@MCS9

Management

Deployment	Standalone
	Managed by Edimax Pro NMS
Configuration	HTTP/HTTPS
	SNMP v1, v2c, v3
	CLI (Telnet, SSH)
RADIUS Server	Built-In
Auto-Channel	Y
Private MIB	Y

Accessory

Mounting Bracket	Wall-Mount Bracket Kit
Power Adapter	12V / 4A Power Adapter
Optional Accessories	**GP-101IT** IEEE802.3at PoE Injector **SC1000** Security Cover

3 x 3 AC Dual-Band Wall-Mount PoE Access Point
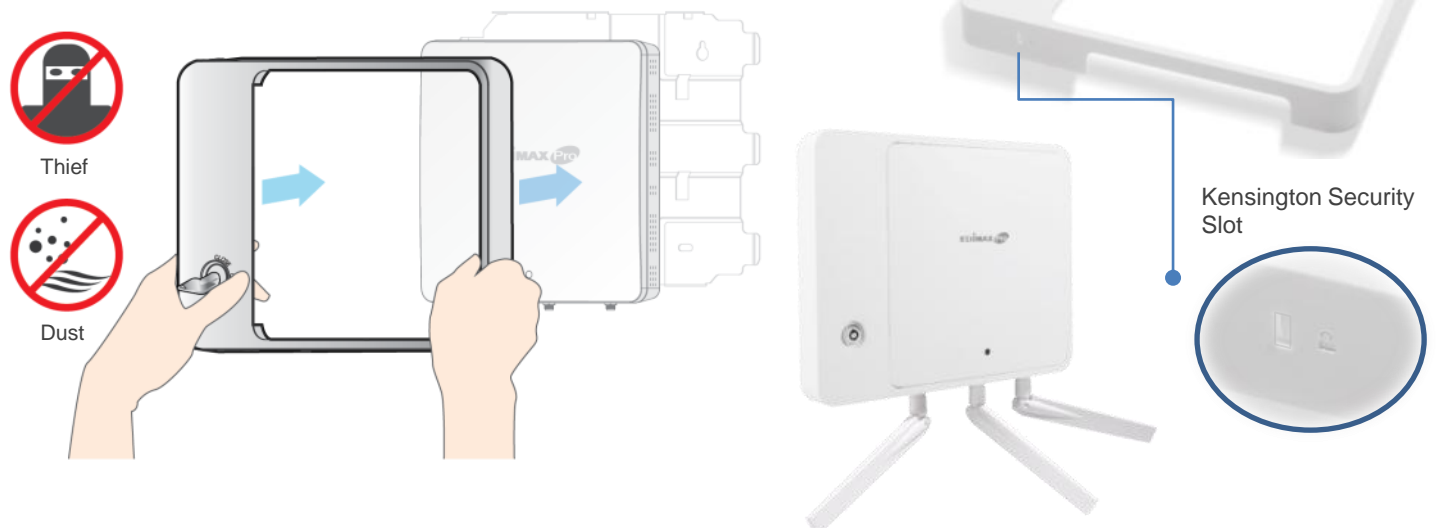
Easy Installation Kit

Wall mount with bracket and magnetic template.
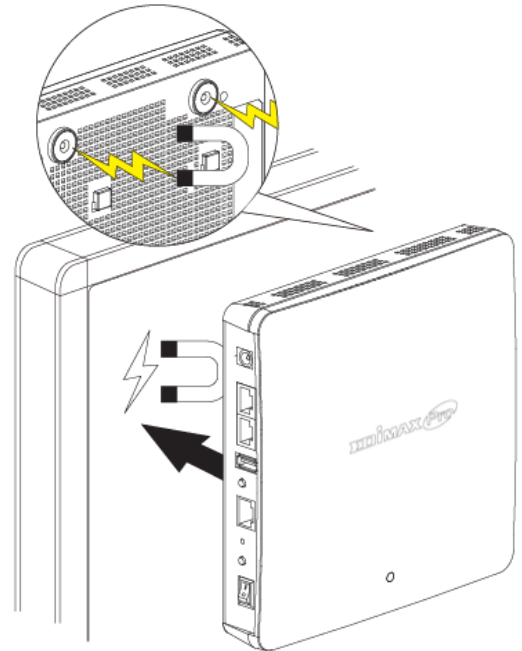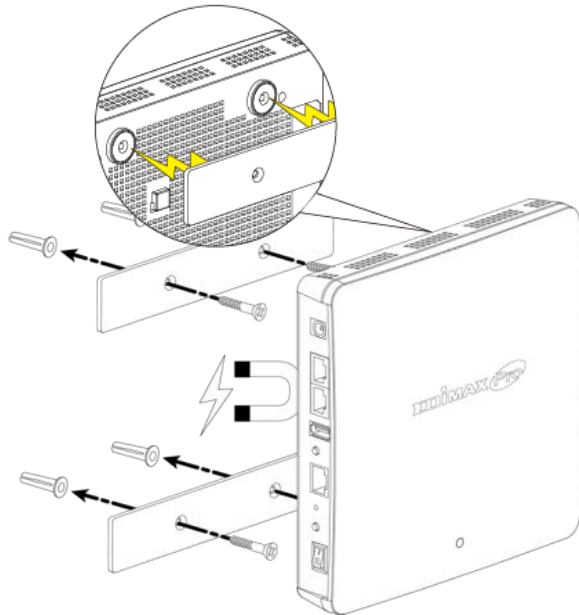
Optional Accessory: Security Cover (SC1000)

Security Cover for Edimax Pro WAP Series Access Point	
Dimensions (L x W x H)	252.25 x 199 x 28.59 mm
Weight (g)	445g
Environment Condition	Operating Temperature: 0°C (32°F) to 50°C (122°F) Operating Humidity: 90% or Less
Package Content	Security Cover / Mounting Bracket / Screws / Ejector Key / Key / QIG

Network security is a critical concern for any modern business and begins with the hardware itself. Edimax Pro access points can be tampered with a robust security cover and lock, preventing the access point from being tampered with or removed and restricting access to authorized persons only.

Thief

Dust

Kensington Security Slot

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NETWORKING PEOPLE TOGETHER