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

*CAP1750*

***3 x 3 AC Dual-Band Ceiling-Mount PoE Access Point***

reddot design award
winner 2015

## KEY FEATURES

•**802.11AC Dual-Band High Speed:** IEEE 802.11ac concurrent dual-band with 1750Mbps wireless speed.
•**Easy Installation:** Ceiling-mount & T-rail mount design with easy installation kit.
•**Compact & Durable Housing:** Ultra slim design with UL94-5VB flame-retardant plastic housing.
•**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 as well as included power adapter.
•**Built-In RADIUS Server:** With management for up to 256 user accounts.
•**Business Environments**: Mainstream choice for SMBs. 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.

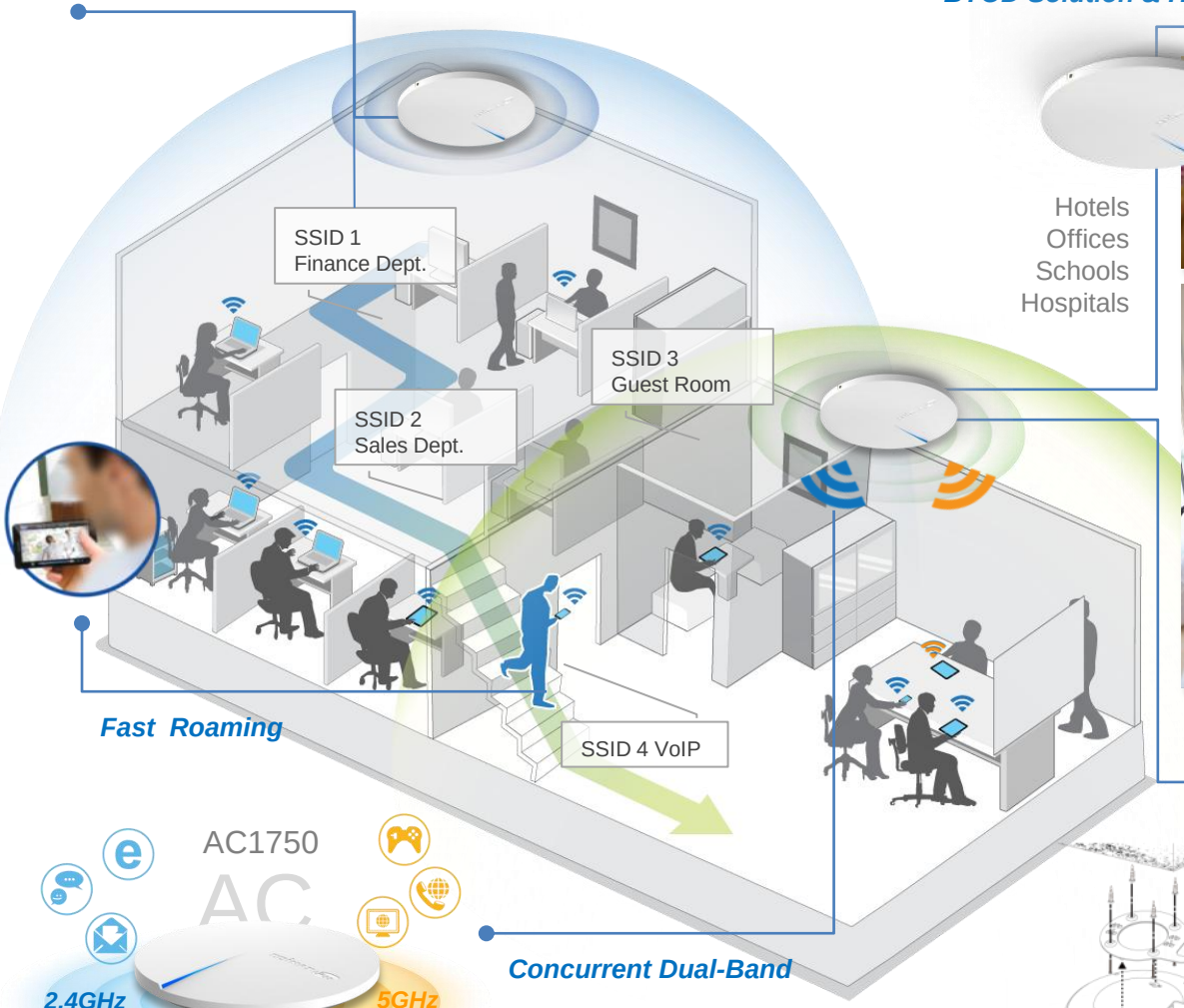
The CAP1750 is a powerful wireless solution designed to meet the needs of modern mainstream businesses with the latest IEEE 802.11ac technology for wireless speeds up to 1750Mbps. Industrial-grade performance and build quality combined with user-friendly operation, super-fast wireless speed, an extensive feature set and a practical, ceiling-mount design make an ideal dual-band solution for enterprise environments.

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. High-density capacity for up to 100 simultaneous users is ideal for BYOD workplaces or other environments with a high volume of users and wireless devices. 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. Fast roaming for seamless transitions between access points, Power over Ethernet support (PoE) and an intuitive web-based management interface provides flexibility for deployment 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.

CAP1750

## Wide Coverage & Multiple SSIDs




## BYOD Solution & High Density Networking

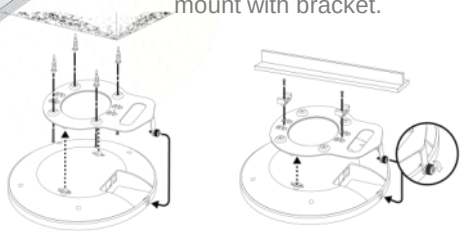
Hotels
Offices
Schools
Hospitals

## Fast Roaming



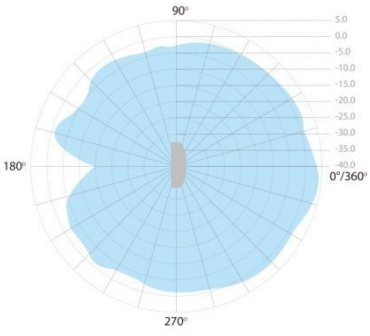
## Easy Installation Kit

Ceiling mount and T-rail mount with bracket.

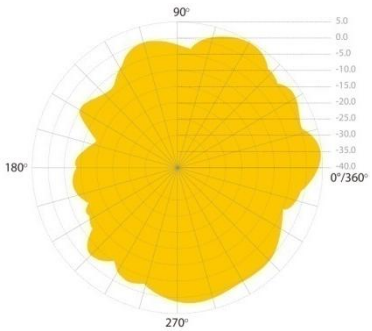




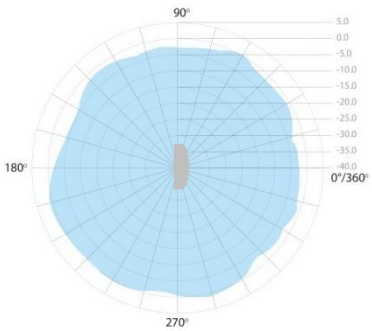

## Concurrent Dual-Band



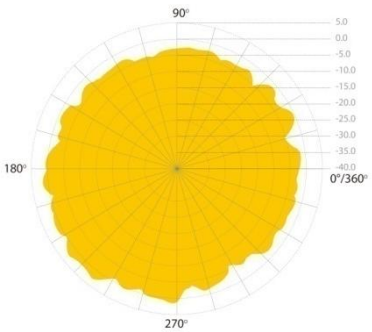

**2.4GHz**
2D Radiation Pattern@ Vertical




**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 Ceiling-Mount PoE Access Point

## SPECIFICATIONS

| Hardware | |
|---|---|
| LAN Interface | Giga x 1 |
| USB | USB 2.0 x 1 (Optional Ethernet Adapter for 2nd LAN) |
| PoE | 802.3at |
| Antenna | Type: 6 x Built-In PIFA<br>(3 x 2.4GHz, 3 x 5GHz) /<br>Gain: 4.38dBi (2.4GHz), 5.34dBi (5GHz) Max. |
| Power | DC: 12V / 2A<br>802.3at (PoE Injector Optional) |
| Dimensions | 20.8 (D) x 3.15 (H) cm |
| Weight | 565g |
| Power Consumption (Full Loading) | 15W; 19.2W (With USB) |
| Mounting | Ceiling |
| Reset | Y |
| LED Indicator | 1. Power LED<br>2. Diag LED |
| Environmental Conditions | Operating Temperature: 0°C (32°F) to 50°C (122°F)<br>Operating Humidity: 90% or Less |
| Power Saving | 802.3az |
| Internal Buzzer | Y |
| Housing | UL94-5VB Flammability Rating Plastic |
| **Wireless** | |
| Standard | 802.11 a/b/g/n/ac Concurrent Dual-Band |
| No. of Radios | 2 |
| Receiver Sensitivity | ≤ -93dBm |
| 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 / Repeater |
| 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)<br>•Radio Ⅱ: 802.11a/n/ac 5.18~5.24(GHz), 5.745~5.825(GHz)<br>(The supported frequency band is restricted by local regulations.) | |
| Operation Channels | •2.4GHz : US/Canada 1-11; 2.412~2.462GHz<br>Europe 1-13; 2.412~2.472GHz<br>Japan 1-14; 2.412~2.484GHz<br>•5GHz : Country dependent for the following ranges:<br>US/Canada:<br>Band 1:36, 40, 44, 48; 5.180~5.240(GHz)<br>Band 4:149, 153, 157, 161, 165; 5.745~5.825(GHz)<br>Europe:<br>Band 1:36, 40, 44, 48; 5.180~5.240(GHz) | |
| Transmit Power | 802.11b<br>23dBm@1Mbps<br>23dBm@2Mbps<br>23dBm@5.5Mbps<br>23dBm@11Mbps<br>802.11g<br>23dBm@6Mbps<br>23dBm@9Mbps<br>23dBm@12Mbps<br>23dBm@18Mbps<br>23dBm@24Mbps<br>22dBm@36Mbps<br>20dBm@48Mbps<br>19dBm@54Mbps<br>802.11gn (2.4G)<br>23dBm@MCS0/MCS8<br>22dBm@MCS1/MCS9<br>22dBm@MCS2/MCS10<br>22dBm@MCS3/MCS11<br>21dBm@MCS4/MCS12<br>20dBm@MCS5/MCS13<br>19dBm@MCS6/MCS14<br>18dBm@MCS7/MCS15 | 802.11a<br>22dBm@6Mbps<br>22dBm@9Mbps<br>22dBm@12Mbps<br>22dBm@18Mbps<br>22dBm@24Mbps<br>21dBm@36Mbps<br>19dBm@48Mbps<br>18dBm@54Mbps<br>802.11an(5G)<br>23dBm@MCS0/MCS8<br>22dBm@MCS1/MCS9<br>22dBm@MCS2/MCS10<br>21dBm@MCS3/MCS11<br>21dBm@MCS4/MCS12<br>20dBm@MCS5/MCS13<br>19dBm@MCS6/MCS14<br>18dBm@MCS7/MCS15<br>802.11ac<br>23dBm@MCS0<br>22dBm@MCS1<br>22dBm@MCS2<br>21dBm@MCS3<br>21dBm@MCS4<br>20dBm@MCS5<br>19dBm@MCS6<br>18dBm@MCS7<br>16dBm@MCS8<br>15dBm@MCS9 |
| Receiver Sensitivity | 802.11b<br>≤-93dBm@1Mbps<br>≤-85dBm@11Mbps<br>802.11g<br>≤-86dBm@6Mbps<br>≤-72dBm@54Mbps<br>802.11gn (2.4G)<br>≤-83dBm@MCS0<br>≤-69dBm@MCS7<br>≤-81dBm@MCS8<br>≤-66dBm@MCS15 | 802.11a<br>≤-90dBm@6Mbp<br>≤-74dBm@54Mbps<br>802.11an(5G)<br>≤-87dBm@MCS0<br>≤-69dBm@MCS7<br>≤-84dBm@MCS8<br>≤-68dBm@MCS15<br>802.11ac<br>≤ -84dBm@MCS0<br>≤ -59dBm@MCS9<br>≤ -80dBm@MCS10<br>≤ -58dBm@MCS19 |
| **Management** | | |
| Deployment | **Standalone:** AP mode | |
| | **Master AP mode:** Can manage 16 Edimax Pro APs | |
| | **Managed AP mode:** Be managed by Edimax Pro 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 | |
| **Accessory** | | |
| Mounting Bracket | Ceiling-Mount Bracket Kit | |
| Power Adapter | 12V / 2A Power Adapter | |
| Optional Accessories | **EU-4306** USB 3.0 Gigabit Ethernet Adapter;<br>**GP-101IT** IEEE802.3at PoE Injector | |

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.



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**Edimax Technology Co., Ltd**
6F., No.3, Wu-Chuan 3rd Road, Wu-Gu,
New Taipei City 24891, Taiwan
Email: sales@edimax.com.tw

**Edimax Technology Europe B.V.**
Fijenhof 2, 5652 AE Eindhoven,
The Netherlands
Email: sales@edimax.nl

**Edimax Computer Company**
3350 Scott Blvd., Bldg.15 Santa Clara,
CA 95054, USA
Email : sales@edimax.com