



## EnSky Series Indoor Access Points

# EnSky Series Indoor Managed Access Points

### High Performance Reliability

EnGenius' EnSky Series line of managed indoor access points provides wireless connectivity that's flexible, scalable and reliable for a broad range of indoor applications.

Whether you are looking to connect a luxury home or office or need to provide ultra-fast Wi-Fi access to a large resort or campus, EnSky access points meet the high-bandwidth requirements and features of today's BYOD users.

No matter what size network you need to support, EnSky access points are flexible enough to meet your needs. Start small and grow or go big. Deploy and manage a few or 10000+ APs on an unlimited number of networks distributed across various locations - regardless of their size and infrastructures. EnSky Series easily scales with your networking needs.

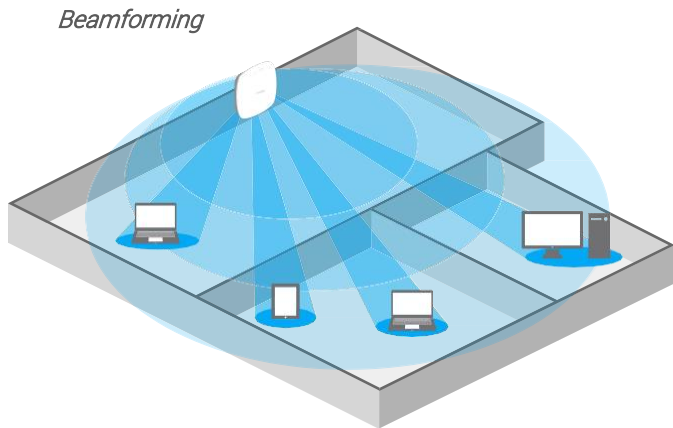
### Features & Benefits

- High-Capacity 11ac Wave 2 Speeds up to 2.5 Gbps
- Tri-Radio & Dual-Radio MU-MIMO Improves Performance, Expands Capacities
- Beamforming Technology Optimizes Signal, Reception & Reliability
- Operate as a Stand-Alone AP or Centrally Manage via Switch
- Remotely Manage 1-1000+ APs via ezMaster™
- Versatile 4x4, 3x3 & 2x2 11ac & Single-Band 11n Models
- No Access Point Licensing or Subscription Fees
- GbE PoE-Compliant Ports Expand Deployment & Power Options
- Low-Profile Ceiling, Wall-Mount & Wall Plate Designs Blend With Environment
- Mesh Wireless Support Simplifies Setup, Optimizes Signals & Self-Heals (Select Models)



## Ultra-Fast 11ac Wave 2 Speeds

EnGenius' 11ac Wave 2 Access Points deliver the highest available speeds for Wi-Fi devices reaching 2.5 Gbps. Beamforming technology focuses signals directly to client devices, providing optimal, reliable reception even in densely crowded environments. Four spatial streams and dual-concurrent MU-MIMO radio operation sends beams to multiple users simultaneously, creating increased network capacity.



## Flexibility in Deployment

EnSky's versatile line of high-performance, managed, indoor ceiling- and wall-mount access points range from single-band 11n models to high-capacity 4x4 dual-band 11ac Wave 2 versions. Wall plate models serve as all-in-one communication "hubs" for in-room wireless connectivity. Configure APs individually as stand-alone units, locally manage up to 50 per EnSky Switch or use ezMaster software to control 1000+ APs.

## Optimize Connectivity With Wireless Mesh On Selected Models

Utilize mesh access point mode on select EnSky APs for retrofit or new install applications where wire runs are not possible. Mesh's smart sensing technology adds devices quickly, optimizes routes between APs, and automatically self-heals the network in the event an AP should ever lose connection.

## Protected by Advanced Encryption

With EnSky APs, your network is protected from attacks at multiple levels through advanced wireless encryption standards such as Wi-Fi Protected Access Encryption and authentication. Network threats are quickly detected and avoided through rogue AP detection, email alerts and real-time wireless invasion monitoring, allowing for immediate action to divert network hacks and other security threats.

## Secure Guest Networks

Organizations that offer Internet access to patrons or visitors—notably hotels, retail shops and restaurants—will appreciate EnSky's guest network capabilities. Establish a secure guest network that blocks access to main corporate computers. Create separate Virtual LANs for increased security, network reliability and bandwidth conservation.



## Power-over-Ethernet Convenience

All EnSky Access Points feature at least one Gigabit PoE port, enabling placement in discreet locations where power outlets are scarce or unavailable. Power the APs through a connected Ethernet cable directly to a EnSky Managed Gigabit PoE+ Switch or with a PoE adapter up to 328 feet from the power source.

## Simplified Deployment & Provisioning

In combination with EnSky Switches and ezMaster Network Management Software, EnSky APs are automatically discovered and provisioned. One-click individual or bulk configurations and upgrades save time. In addition, these access points are quickly and easily deployed and operated by users with limited networking experience.

## Manage Up to 50 APs with EnSky Switches

In small settings, any EnSky Managed Switch can act as a wireless controller capable of managing up to 50 EnSky Access Points. IT administrators have access to all connected EnSky devices and a full array of Layer 2 management tools. Choose between 8, 24, and 48-Port PoE+ switch models with flexible deployment and management options.

# ezMaster

Network Management Software

## Flexible Distributed Network Management

ezMaster Network Management Software expands the flexibility and scalability of EnSky Series Managed Access Points and Switches.

ezMaster allows organizations, such as branch offices and managed service providers, to easily and affordably deploy, monitor and manage a large number of Ensky APs, Switches and IP Cameras across geographically diverse properties. Centrally manage an unlimited number of independent distributed networks in the same subnet or cross-subnets from a single, at-a-glance network dashboard, no matter where they're located.

Deploy ezMaster locally, remotely or via a Cloud-based service with or without an onsite controller.

## Powerful, Scalable Options

ezMaster scales with your growing business needs. Manage 10000+ EnSky devices and 10000+ concurrent users. Together, EnSky APs, Switches and ezMaster provide a flexible, fully integrated solution with redundancy support and future expandability for broader device connectivity.



## System Requirements

### Recommended environment for managing up to 500 APs

CPU: Intel® Core™ i7 quad-core or above  
RAM: 4 GB minimum  
HDD: 500 GB (actual requirement dependent on log size)  
OS: Microsoft® Windows® 7 or later + VMware® Player 7.0 or compatible virtualization software

### Recommended environment for managing 1000+ APs

CPU: Intel® Xeon® Processor E3 or above  
RAM: 4 GB minimum  
HDD: 500 GB (actual requirement dependent on log size)  
OS: Microsoft® Windows® 7 or later + VMware® Player 7.0 or compatible virtualization software

### Browser Requirements

Internet Explorer 10 or better  
Firefox 34.0 or better  
Chrome 31.0 or better  
Safari 8.0 or better

### Network Topology Requirements

At sites where APs are deployed: A DHCP-enabled network for APs to obtain an IP address







## Simplified Device Management

ezMaster Network Management Software makes centralized device management easy. How? Through bulk configuration, provisioning and monitoring, a comprehensive at-a-glance network dashboard, rich analytics and reporting, and much more.

## ezMaster Software features

- **Centralized Management**
  - Configure, Managed & Monitor 1000+ EnSky Devices
  - Cross-Network AP Management
  - AP Group Configuration
- **Access Point Configuration & Management**
  - Auto Channel Selection
  - Auto Tx Power
  - Background Scanning
  - Band Steering (Auto Band Steering & Band Balancing)
  - Client Isolation
  - Client Limiting
  - Fast Roaming
  - L2 Isolation
  - LED On/Off Control
  - Multiple SSID
  - RSSI Threshold
  - Secure Guest Network
  - Traffic Shaping
  - VLAN Isolation
  - VLAN Tag
- **Comprehensive Monitoring**
  - Device Status Monitoring
  - Floor Plan View
  - Map View
  - Rogue AP Detection
  - System Status Monitoring
  - Visual Topology View
  - Wireless Client Monitoring
  - Wireless Coverage View
  - Wireless Traffic & Usage Statistics
- **Management & Maintenance**
  - Bulk Firmware Upgrade
  - Traffic Shaping
  - Captive Portal
  - Email Alert
  - Kick/Ban Clients
  - One-Click Update
  - Remote Logging
  - Scheduling
  - Seamless Migration
  - Syslog

## EnSky Series Indoor Access Points

						
11ac Wave 2	CEILING-MOUNT					WALL PLATE
Models	EWS371AP	EWS370AP	EWS385AP	EWS360AP	EWS330AP	EWS550AP
Standards	802.11a/b/g/n/ac Wave 2	802.11a/b/g/n/ac Wave 2	802.11a/b/g/n/ac Wave 2 (Triband)	802.11a/b/g/n/ac	802.11a/b/g/n/ac Wave 2	802.11a/b/g/n/ac Wave 2
Frequency	2.4 GHz & 5 GHz	2.4 GHz & 5 GHz	2.4 GHz & 5 & 5 GHz	2.4 GHz & 5 GHz	2.4 GHz & 5 GHz	2.4 GHz & 5 GHz
2.4 GHz Max. Data Rate	800 Mbps	800 Mbps	400 Mbps	450 Mbps	400 Mbps	400 Mbps
5 GHz Max. Data Rate	1733 Mbps	1733 Mbps	867 + 867 Mbps	1300 Mbps	867 Mbps	867 Mbps
Radio Chains/Streams	4 x 4:4	4 x 4:4	2 x 2:2	3 x 3:3	2 x 2:2	2 x 2:2
RF Output Power (2.4 GHz)	27 dBm	27 dBm	22 dBm	28 dBm	26 dBm	21 dBm
RF Output Power (5 GHz)	27 dBm	27 dBm	22 dBm	28 dBm	26 dBm	20 dBm
Ethernet Ports	2 x GbE Port (PoE+)	2 x GbE Port (PoE+)	2 x GbE Port (1xPoE-in)	1 x GbE Port (PoE+)	1 x GbE Port (PoE)	1 x GbE Uplink 2 x GbE 1 x GbE w/PoE 2 x RJ45 Pass-Through 2 x 110 Punchdown
Power-over-Ethernet	802.3at	802.3at	802.3af	802.3at	802.3af	802.3af/at
Power Consumption (Peak)	21W	21W	12W	22.8W	12W	10W
Integrated Antenna	N/A	8 x 3 dBi	2 x 5dBi (2.4 GHz) 4 x 6 dBi (5 Ghz)	6 x 5 dBi	4 x 5 dBi	2 x 4 dBi (2.4 GHz) 2 x 6 dBi (5 GHz)
External Antenna	8 x 3 dBi (RP-SMA)	N/A	N/A	N/A	N/A	N/A

Technical Specifications

Frequency

EWS330AP/EWS360AP/EWS370AP/EWS371AP/  
EWS385AP/EWS550AP

2.4 and 5 GHz Frequency Bands

Standards

EWS330A/EWS360AP/EWS370AP/EWS371AP/  
EWS550AP/EWS385AP

IEEE 802.11a/b/g/n/ac

Radio I

11b/g/n: 2.412~2.484 GHz

Radio II (Dual-Band models only)

11a/n/ac: 5.18-5.24 & 5.26-5.32 & 5.5-5.7 & 5.745-  
5.825 GHz

Radio III

11a/n/ac: 5150~5250, 5250~5350 GHz

Data Rates

EWS385AP  
Up to 400 Mbps on 2.4 GHz; Up to 867 Mbps on 5.4  
GHz, Up to 867 GHz on 5.6 GHz

EWS360AP  
Up to 450 Mbps on 2.4 GHz; Up to 1300 Mbps on 5  
GHz

EWS370AP/EWS371AP  
Up to 2.5Gbps; Up to 800 Mbps on the 2.4 GHz band;  
Up to 1,733 Mbps on the 5 GHz band

EWS330AP/EWS550AP  
Up to 400 Mbps on 2.4 GHz; Up to 867 Mbps on 5 GHz

Power Consumption

EWS330AP Up to 12W

EWS360AP Up to 22.8W

EWS370AP Up to 21W

EWS371AP Up to 21W

EWS550AP Up to 10W

EWS385AP Up to 12W

Antennas

EWS330AP

2 x 5 dBi 2.4 GHz Internal

2 x 5 dBi 5 GHz Internal

EWS360AP

3 x 5 dBi 2.4 GHz Internal

3 x 5 dBi 5 GHz Internal

EWS370AP

4 x 3 dBi (RP-SMA) 2.4 GHz Internal

4 x 3 dBi (RP-SMA) 5 GHz Internal

EWS371AP

4 x 3 dBi 2.4 GHz Detachable

4 x 3 dBi 5 GHz Detachable

EWS385AP

2 x 5 dBi 2.4 GHz Internal

2 x 5 dBi 5 GHz Internal

2 x 5 dBi 5 GHz Internal

EWS550AP

2 x 4 dBi 2.4 GHz Internal

2 x 6 dBi 5 GHz Internal

Physical Interface

EWS360AP

1 x RJ45 10/100/1000 Mbps - PoE Capable - 802.3at  
PoE Input

1 x Reset Button

1 x Power Connector

1 x Kensington Lock Slot

EWS330AP

1 x RJ45 10/100/1000 Mbps - PoE Capable - 802.3af  
PoE Input

1 x DC Jack

1 x Reset Button

EWS370AP/EWS371AP

2 x RJ45 10/100/1000 Mbps Ports (Link Aggregation  
Achieves 2 Gbps Throughput)

- LAN1: 802.3at PoE Input

- LAN2: Pass-Through Port

1 x Reset Button

1 x DC Power Connector

1 x Kensington Lock Slot

EWS385AP

2 x RJ45 10/100/1000 Mbps Ports

- LAN1: 802.3af PoE Input

- LAN2: Pass-Through Port

1 x Reset Button

1 x DC Power Connector

1 x Kensington Lock Slot

EWS550AP

1 x 10/100/1000 Mbps Uplink Port (back plate)

3 x 10/100/1000 Mbps Ethernet Switched Ports (client  
ports)

- Port 1 (PSE) 802.3af PoE (requires 802.3at power  
source)

2 x 110 Punch Down Block (1x Passthrough Port, 1x  
Uplink Port)

2 x RJ45 Pass-Through Ports

1 x Reset Button

1 x Kensington Lock Slot

LED Indicators

EWS360AP

1 x Power

1 x WLAN (Wireless Connection)

1 x LAN

1 x 2.4 GHz

1 x 5 GHz

EWS330AP

1 x Power

1 x 2.4 GHz

1 x 5 GHz

EWS370AP/EWS371AP

1 x Power

2 x LAN

1 x 2.4 GHz

1 x 5 GHz

1 x Mesh

EWS385AP

1 x Power

2 x LAN

1 x 2.4 GHz

2 x 5 GHz

1 x Mesh

EWS550AP

1 x Power

1 x Uplink

1 x 5 GHz

1 x 2.4 GHz

1 x PoE Out

1 x LAN

Power Requirements

Power Supply: 100 to 240 VDC ± 10%, 50/60 Hz  
(depends on different countries)

Active Ethernet (Power-over-Ethernet, IEEE  
802.3at/af)

EWS330AP 12 V/1A

EWS360AP/EWS370AP/EWS371AP 12V/2A

EWS550AP Power-over-Ethernet with 802.3at in

Modulations

OFDM: BPSK, QPSK, 26-QAM, 16-QAM,

64-QAM, 256-QAM (EWS371AP/EWS370AP/

EWS550AP/EWS330AP) DBPSK, DQPSK,CCK

Radio Technologies

802.11b: Direct-Sequence Spread Spectrum (DSSS)

802.11a/g/n/ac: Orthogorial Frequency Division

Multiflexing (OFDM)

Operating Channels

2.4 GHz US/Canada 1-11

5 GHz (Dual-Band models only): Country dependnt  
for the following ranges:

36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116,  
120, 124, 128, 132, 136, 140, 149, 153, 157, 161, 165

Operation Modes

Access Point

Mesh  
(EWS360AP/EWS330AP/EWS550AP/EWS385AP)

Multiple BSSID

Supports up to 8 unique SSIDs for both 2.4 GHz & 5  
GHz

SSID-to-VLAN Tagging

Supports 802.1q SSID-to-VLAN Tagging

Spanning Tree

Supports 802.1d Spanning Tree Protocol
<b>Wireless</b>
EWS330AP/EWS360AP/EWS370AP/EWS371AP/ EWS550AP/EWS385AP
Wireless Mode: 11a/11b/11g/11n/11ac
All EWS 11ac APs
Channel Bandwidth (Auto, 20 MHz, 40 MHz, 80 MHz)
<b>Tx Beamforming (Tx BF)</b>
EWS330AP/EWS370AP/EWS371AP/EWS550AP/EWS385AP
<b>SU-MIMO</b>
EWS370AP/EWS371AP
4 Spatial Streams to 2500Mbps to single client
EWS330AP/EWS355AP/EWS550AP/EWS385AP
2 Spatial Streams to 1267 Mbps to single client
<b>MU-MIMO</b>
EWS370AP/EWS371AP
4 Spatial Stream up to 1733 Mbps to 2 Clients
MU-MIMO-Capable Devices Simultaneously
EWS330AP/EWS355AP/EWS550AP/EWS385AP
2 Spatial Stream to 1167 Mbps to 2 Clients
MU-MIMO Capable Devices Simultaneously
<b>Stand-Alone Management Features</b>
Auto Channel Selection
Auto Transmit Power
Wireless STA (Client) Connected List
Captive Network (Guest Network)
Fast Roaming (802.11k & 802.11r)
Pre-Authentication (802.11i, 802.11x)
PMK Caching (802.11i)
RSSI Threshold
Band Steering per SSID
Traffic Shaping
VLANs for Access Point – Multiple SSIDs
MAC Address Filtering
Backup/Restore Settings
Power Save Mode
Auto Reboot
E-Mail Alert
Site Survey
Save Configuration as Default
Background Scanning
Client Fingerprinting
Multicast to Unicast
Captive Portal
Wi-Fi Scheduler
RADIUS Accounting
<b>Wireless Management Features (with ezMaster &amp; EnSky Switch)</b>
Access Point Auto Discovery and Provisioning

Access Point Auto IP Assignment
Access Point Group Management
Remote Access Point Rebooting
Access Point Device Name Editing
Access Point Radio Settings
Band Steering per SSID
Traffic Shaping
Fast Roaming (802.11k & 802.11r)
Pre-Authentication (802.11i & 802.11x)
PMK Caching (802.11i)
RSSI Threshold
Access Point Client Limiting
Client Fingerprinting
Wireless Security (WEP, WPA/WPA2 Enterprise,WPA/WPA2 PSK)
AP VLAN Management
VLANs for Access Point- Multiple SSIDs
Secured (Guest Network)
Captive Portal
Access Point Status Monitoring
Rogue AP Detection
Wireless Client Monitoring
Background Scanning
Email Alert
Wireless Traffic & Usage Statistics
Real-Time Throughput Monitoring
Visual Topology View
Floor Plan View
Map View
Wireless Coverage Display
Secure Control Messaging (SSL Certificate)
Local MAC Address Database
Remote MAC Address Database (RADIUS)
Unified Configuration Import/Export
Bulk Firmware Upgrade Capability
Muti-Tenant
One-Click Update
Intelligent Diagnostics
Kick/Ban Clients
Wi-Fi Scheduler
<b>Tx Power Control</b>
Adjust Transmit Power by dBm
<b>Configuration</b>
Web-based Configuration (http)
<b>Firmware Upgrade</b>
Via Web Browser
<b>Administrator Settings</b>
Administrator Username and Password Change
<b>MIB</b>
MIB I, MIB II (RFC1213) and private MIB
System Monitoring
Status Statistic and Event Log

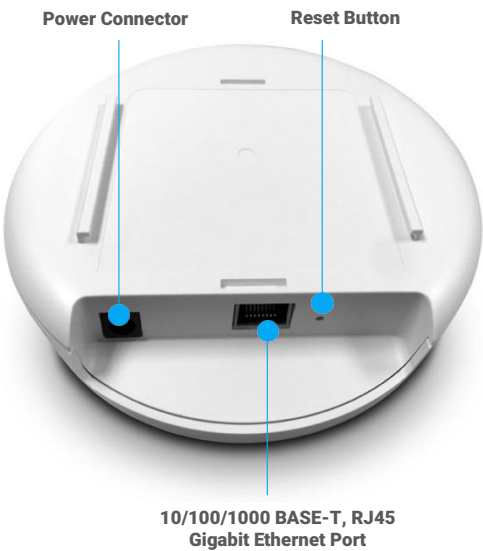
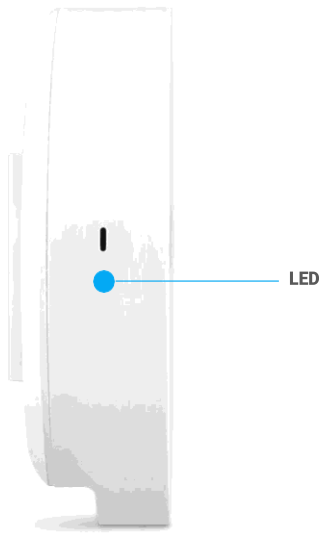
<b>SNMP</b>
V1/V2c/V3
<b>Reset Settings</b>
Reboot (press and hold for 2 seconds).
Reset to Factory Default (press and hold for 10 Seconds)
<b>Auto-Channel Selection</b>
Automatically Selecting Least Conjested Channel
<b>Bandwidth Measurement</b>
IP Range and Bandwidth Management
<b>Schedule Reboot</b>
Reboot Access Point by Minute, Hour, Day, or Week
<b>Backup and Restore</b>
Save and Restore Settings via Web Interface
<b>CLI</b>
Supports Command Line Interface
<b>Diagnosis</b>
IP Pinging Statistics
<b>Log</b>
SysLog and Local Log Support
<b>LED Control</b>
On/Off
<b>AP Detection</b>
Scanning for Available EnGenius APs
<b>Wireless Security</b>
WPA2 Personal (WPA-PSK using AES)
WPA2 Enterprise (WPA-EAP using AES)
802.1X RADIUS Authenticator: MD5/TLS/TTLS, PEAP
SSID Broadcast Enable/Disable
MAC Address Filtering, Up to 50 Entries
L2 Isolation
<b>QoS (Quality of Service)</b>
IEEE 802.11e
WMM (Wireless Multimedia)
<b>Temperature Range</b>
Operating: 0°C to 40°C
Storage Temperature: -40°C to 80°C
<b>Humidity (non-condensing)</b>
Operating: 90% or less
Operating: 90% or less

<b>Physical Security</b>
Kensington Security Slot
<b>Device Dimensions and Weights</b>
EWS330AP
Weight: 0.180g
Diameter: 130 mm
Height: 40 mm
EWS360AP
Weight: 362.8 g
Length: 165.1 mm
Width: 165.1 mm
Height: 41.6 mm
EWS370AP/EWS371AP
Weight: 1.67 kg
Length: 215 mm
Width: 215 mm
Height: 55.8 mm
EWS385AP
Weight: 0.54 kg
Length: 200 mm
Width: 200 mm
Height: 40.64 mm

EWS550AP
Weight: 0.45 0kg
Width: 125 mm
Length: 188 mm
Height: 26 mm
<b>Package Contents</b>
EWS330AP
Power Adapter (12V/1A)
2 size T-rail brackets + screw set
Quick Installation Guide
EWS360AP
Power Adapter (12V/1A)
T-rail mounting kit, mounting bracket + screw set
RJ-45 Ethernet Cable
Quick Installation Guide
EWS370AP
Power Adapter (12V/2A)
2 size T-rail bracket + screw set
RJ-45 Ethernet Cable
Quick Installation Guide
EWS371AP
8 x Detachable RP-SMA Antennas
Power Adapter (12V/2A)

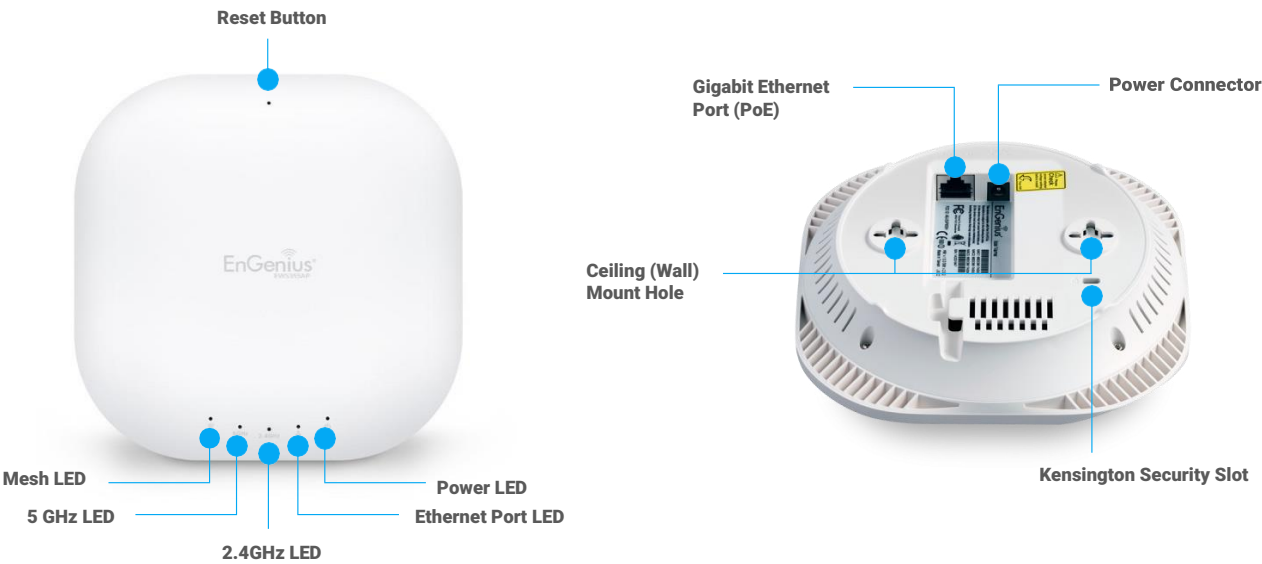
2 size T-rail brackets + screw set
RJ-45 Ethernet Cable
Quick Installation Guide
EWS385AP
2 size T-rail brackets + screw set
RJ-45 Ethernet Cable
Quick Installation Guide
EWS550AP
Mounting bracket for J-Box + screw set
Quick Installation Guide
<b>Certifications</b>
FCC, IC, CE
<b>Warranty</b>
2-Year Standard
*Note: No Power Adapter included in, EWS385AP and EWS550AP

EWS330AP Indoor Access Point

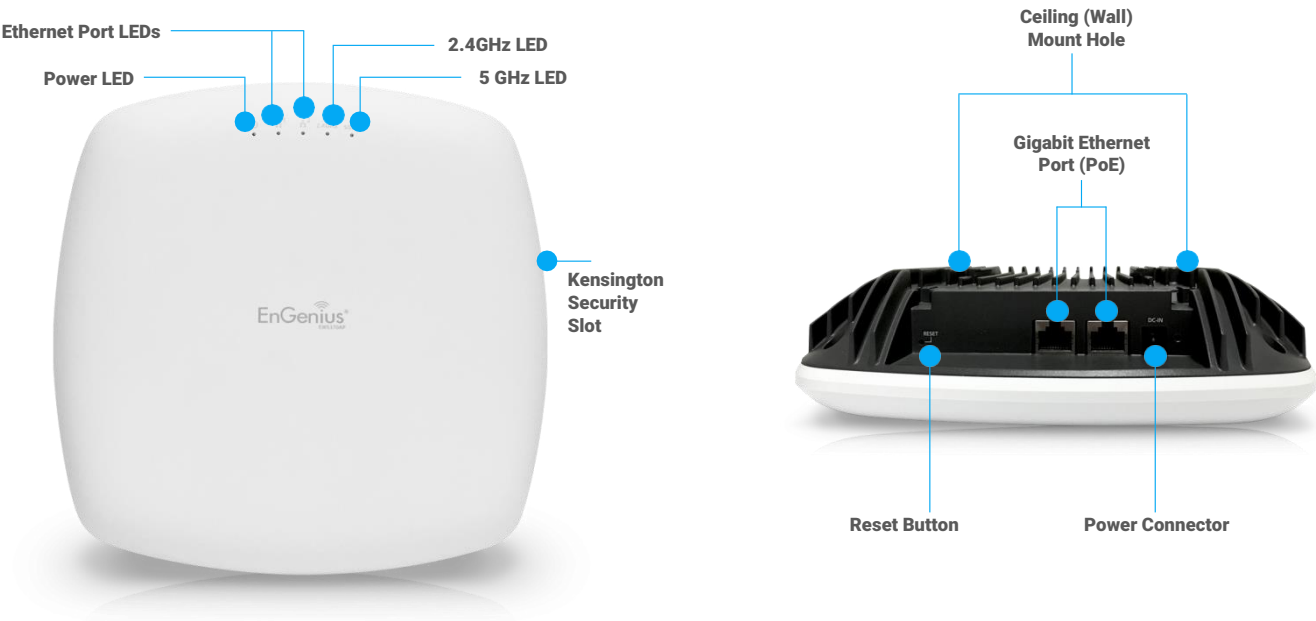




EWS360AP Indoor Access Point

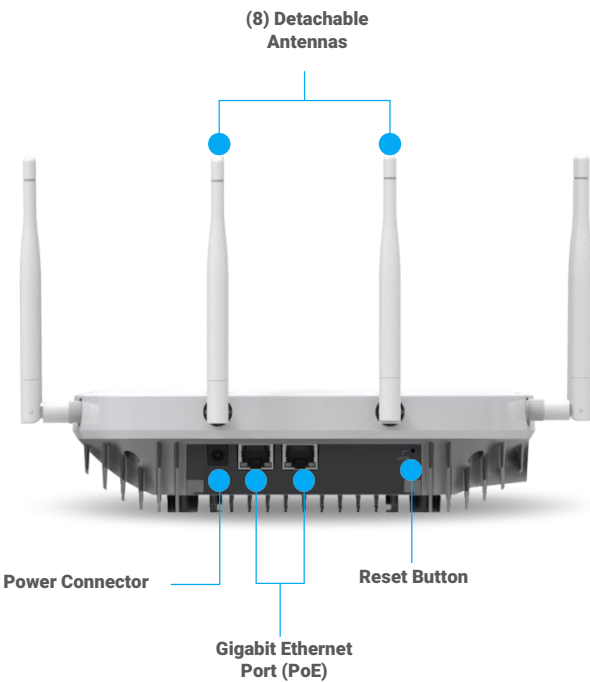
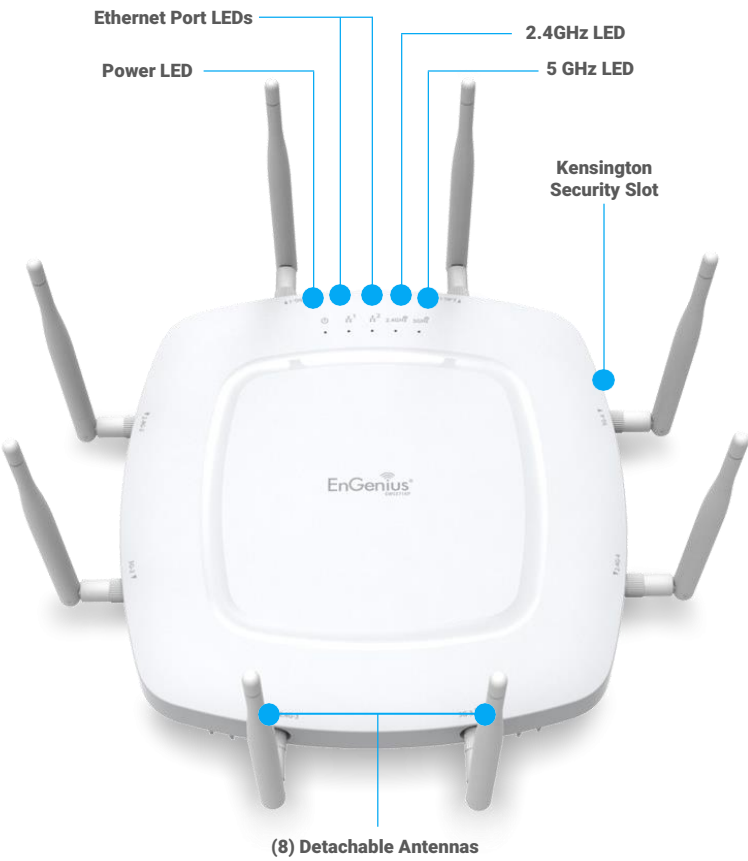


EWS370AP Indoor Access Point

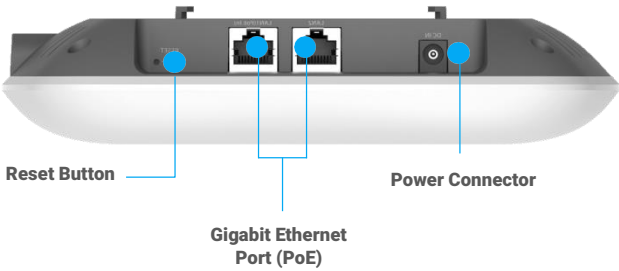
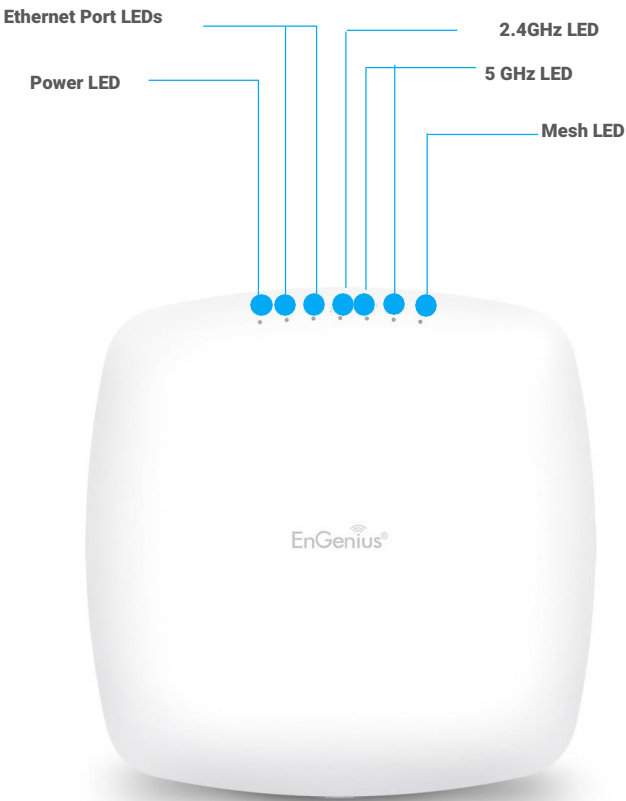




EWS371AP Indoor Access Point



EWS385AP Indoor Access Point



## EWS550AP Indoor Wall Plate Access Point

