



Neutron Series Indoor Access Points

Neutron Series Indoor Managed Access Points

High Performance Reliability

EnGenius' Neutron 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, Neutron EWS Access Points meet the high-bandwidth requirements and features of today's BYOD users.

No matter what size network you need to support, Neutron EWS Access Points are flexible enough to meet your needs. Start small and grow or go big. Deploy and manage a few or 1,000+ APs on an unlimited number of networks distributed across various locations—regardless of their size and infrastructures. Neutron Series easily scales with your networking needs.

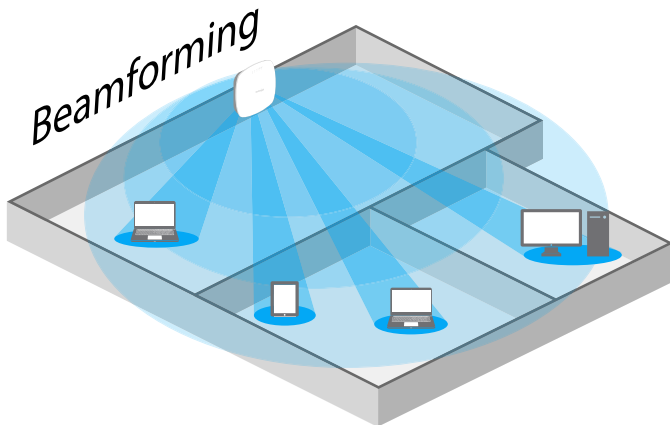
Features & Benefits

- High-Capacity 11ac Wave 2 Speeds up to 2.5 Gbps
- 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 1-1,000+ APs via ezMaster™
- Versatile 4x4, 3x3 & 2x2 11ac & Single-Band 11n Models
- No Access Point Licensing or Subscription Fees
- GigE 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

Neutron'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 Neutron Switch or use ezMaster software to control 1,000+ APs.

Optimize Connectivity With Wireless Mesh On Selected Models

Utilize mesh access point mode on select Neutron 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 Neutron EWS 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 Neutron'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 Neutron EWS 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 Neutron Managed Gigabit PoE+ Switch or with a PoE adapter up to 328 feet from the power source.

Simplified Deployment & Provisioning

In combination with Neutron Switches and ezMaster Network Management Software, Neutron EWS 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 Neutron Switches

In small settings, any Neutron Managed Switch can act as a wireless controller capable of managing up to 50 Neutron EWS Access Points. IT administrators have access to all connected Neutron 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.

Flexible Distributed Network Management

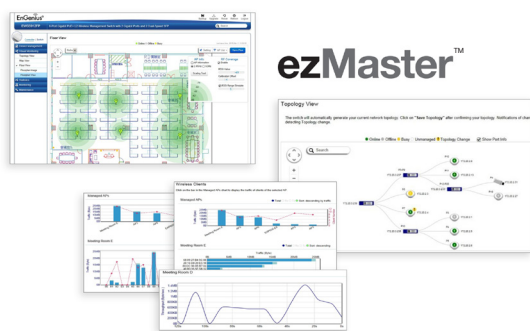
ezMaster Network Management Software expands the flexibility and scalability of Neutron Series EWS Managed Access Points and Switches.

ezMaster allows organizations, such as branch offices and managed service providers, to easily and affordably deploy, monitor and manage a large number of Neutron 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 1,000+ Neutron EWS devices and 10,000+ concurrent users. Together, Neutron 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 1,000+ 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 1,000+ Neutron 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

EnGenius Neutron Series Indoor Managed Access Points

				
11ac WAVE 2	CEILING-MOUNT			WALL PLATE
Models	EWS371AP	EWS370AP	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	802.11a/b/g/n/ac Wave 2
Frequency	2.4 GHz & 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	400 Mbps
5 GHz Max. Data Rate	1,733 Mbps	1,733 Mbps	867 Mbps	867 Mbps
Radio Chains/Streams	4 x 4:4	4 x 4:4	2 x 2:2	2 x 2:2
RF Output Power (2.4 GHz)	27 dBm	27 dBm	26 dBm	21 dBm
RF Output Power (5 GHz)	27 dBm	27 dBm	26 dBm	20 dBm
Ethernet Ports	2 x Gig Port (PoE+)	2 x Gig Port (PoE+)	1 x Gig Port (PoE)	1 x GigE Uplink 2 x GigE Switched 1 x GigE Switched PoE+ 2 x RJ45 Pass-Through 2 x 110 Punch-down
Power-over-Ethernet	802.3at	802.3at	802.3af	802.3af/at
Power Consumption (Peak)	21W	21W	12W	10W
Integrated Antenna	N/A	8 x 3 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

				
11ac & 11n	CEILING-MOUNT			
Models	EWS360AP	EWS355AP	EWS350AP	EWS310AP
Standards	802.11a/b/g/n/ac	802.11a/b/g/n/ac Wave 2	802.11a/b/g/n/ac	802.11a/b/g/n
Frequency	2.4 GHz & 5 GHz	2.4 GHz & 5 GHz	2.4 GHz & 5 GHz	2.4 GHz & 5 GHz
2.4 GHz Max. Data Rate	450 Mbps	400 Mbps	300 Mbps	300 Mbps
5 GHz Max. Data Rate	1,300 Mbps	867 Mbps	867 Mbps	300 Mbps
Radio Chains/Streams	3 x 3:3	2 x 2:2	2 x 2:2	2 x 2:2
RF Output Power (2.4 GHz)	28 dBm	23 dBm	26 dBm	29 dBm
RF Output Power (5 GHz)	28 dBm	23 dBm	26 dBm	26 dBm
Ethernet Ports	1 x Gig Port (PoE+)	1 x Gig Port (PoE)	1 x Gig Port (PoE+)	1 x Gig Port (PoE)
Power-over-Ethernet	802.3at	802.3af	802.3at	802.3af/at
Power Consumption (Peak)	22.8W	12W	18W	15.6W
Integrated Antenna	6 x 5 dBi	4 x 5 dBi	4 x 5 dBi	4 x 5 dBi
External Antenna	N/A	N/A	N/A	N/A

Technical Specifications

Frequency

EWS310AP/EWS330AP/EWS350AP/EWS355AP/EWS360AP/EWS370AP EWS371AP/EWS510AP/EWS550AP

2.4 and 5 GHz Frequency Bands

Standards

EWS310AP/EWS510AP

IEEE 802.11a/b/g/n

EWS330AP/EWS350AP/EWS355AP/EWS360AP/EWS370AP/EWS371AP/EWS550AP

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

Data Rates

EWS310AP/EWS510AP Up to 300 Mbps on both frequency bands

EWS350AP Up to 300 Mbps on 2.4 GHz; Up to 867 Mbps on 5 GHz

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

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

EWS330AP/EWS355AP/EWS550AP Up to 400 Mbps on 2.4 GHz; Up to 867 Mbps on 5 GHz

Power Consumption

EWS310AP Up to 15.6W

EWS330AP Up to 12W

EWS350AP Up to 18W

EWS355AP Up to 12W

EWS360AP Up to 22.8W

EWS370AP Up to 21W

EWS371AP Up to 21W

EWS510AP Up to 10.8W

EWS550AP Up to 10W

Technical Specifications continued

Antennas

EWS310AP/EWS330AP/EWS350AP/EWS355AP

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

EWS510AP

2 x 4 dBi 2.4 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

EWS310AP/WS350AP/EWS355AP/EWS360AP

1 x RJ45 10/100/1000 Mbps — PoE Capable

- 802.3at PoE Input (EWS360AP)

- 802.3af PoE Input (EWS310AP / EWS350AP / EWS355AP)

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

EWS510AP

1 x 10/100/1000 Mbps Uplink Port with 802.3af/at PoE

1 x 10/100 Mbps Switched Port with PoE Output (support 802.3af output when PoE input is 802.3at)

3 x 10/100 Mbps Switched Ports

2 x RJ45 Pass-Through Ports

1 x 110 Punch Down Block

1 x DC Power Connector

1 x Reset Button

Physical Interface Continued

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

EWS310AP/EWS350AP/EWS355AP/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 WLAN

1 x LAN 2.4 GHz

1 x LAN 5 GHz

EWS510AP

1 x Power

1 x WAN

1 x 2.4 GHz

1 x 5 GHz

1 x LAN 1-4

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 $\pm$ 10%, 50/60 Hz (depends on different countries)

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

EWS330AP/EWS355AP 12 V/1A

EWS310AP/EWS350AP/EWS360AP/EWS370AP/EWS371AP 12V/2A

Power Requirements Continued

EWS510AP 48V/0.8A

EWS550AP Power-over-Ethernet with 802.3at in

Modulations

OFDM: BPSK, QPSK, 26-QAM (EWS300AP) 16-QAM, 64-QAM, 256-QAM (EWS371AP/EWS370AP/EWS550AP/EWS355AP/EWS330AP) DBPSK, DQPSK, CCK

Radio Technologies

802.11b: Direct-Sequence Spread Spectrum (DSSS)

802.11a/g/n/ac: Orthogonal Frequency Division Multiplexing (OFDM)

Operating Channels

2.4 GHz US/Canada 1-11

5 GHz (Dual-Band models only): Country dependent 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 (EWS360AD/EWS350AP/EWS355AP EWS330AP/EWS550AP)

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

Wireless

EWS310AP/EWS510AP

Wireless Mode: 11a/11b/11g/11n

EWS330AP/EWS350AP/EWS355AP/EWS360AP/EWS370AP/EWS371AP/EWS550AP

Wireless Mode: 11a/11b/11g/11n/11ac

All EWS 11ac APs

Channel Bandwidth (Auto, 20 MHz, 40 MHz, 80 MHz)

EWS310AP/EWS510AP

Channel Bandwidth (Auto, 20 MHz, 40 MHz)

Tx Beamforming (Tx BF)

EWS330AP/EWS355AP/EWS370AP/EWS371AP/EWS550AP

Technical Specifications continued

SU-MIMO
EWS370AP/EWS371AP
(4) Spatial Streams to 1733Mbps to single client
EWS330AP/EWS355AP/EWS550AP
(2) Spatial Streams to 1267 Mbps to single client
MU-MIMO
EWS370AP/EWS371AP
3) Spatial Stream up to 1267 Mbps to (2) Clients MU-MIMO-Capable Devices Simultaneously
EWS330AP/EWS355AP/EWS550AP
(2) Spatial Stream to 1267 Mbps to (2) Clients MU-MIMO Capable Devices Simultaneously
Stand-Alone Management Features
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
Wireless Management Features (with ezMaster & Neutron Switch)
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

Wireless Management Features (with ezMaster & Neutron Switch) continued
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
Tx Power Control
Adjust Transmit Power by dBm
Configuration
Web-based Configuration (http)
Firmware Upgrade
Via Web Browser
Administrator Settings
Administrator Username and Password Change
MIB
MIB I, MIB II (RFC1213) and private MIB
System Monitoring
Status Statistic and Event Log
SNMP
V1/V2c/V3
Reset Settings
Reboot (press and hold for 2 seconds). Reset to Factory Default (press and hold for 10 seconds)

Auto-Channel Selection
Automatically Selecting Least Conjested Channel
Bandwidth Measurement
IP Range and Bandwidth Management
Schedule Reboot
Reboot Access Point by Minute, Hour, Day, or Week
Backup and Restore
Save and Restore Settings via Web Interface
CLI
Supports Command Line Interface
Diagnosis
IP Pinging Statistics
Log
SysLog and Local Log Support
LED Control
On/Off
AP Detection
Scanning for Available EnGenius APs
Wireless Security
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
QoS (Quality of Service)
IEEE 802.11e
WMM (Wireless Multimedia)
Temperature Range
Operating: 32°F to 104°F (0°C to 40°C)
Storage Temperature: -40°F to 176°F (-40°C to 80°C)
Humidity (non-condensing)
Operating: 90% or less
Operating: 90% or less

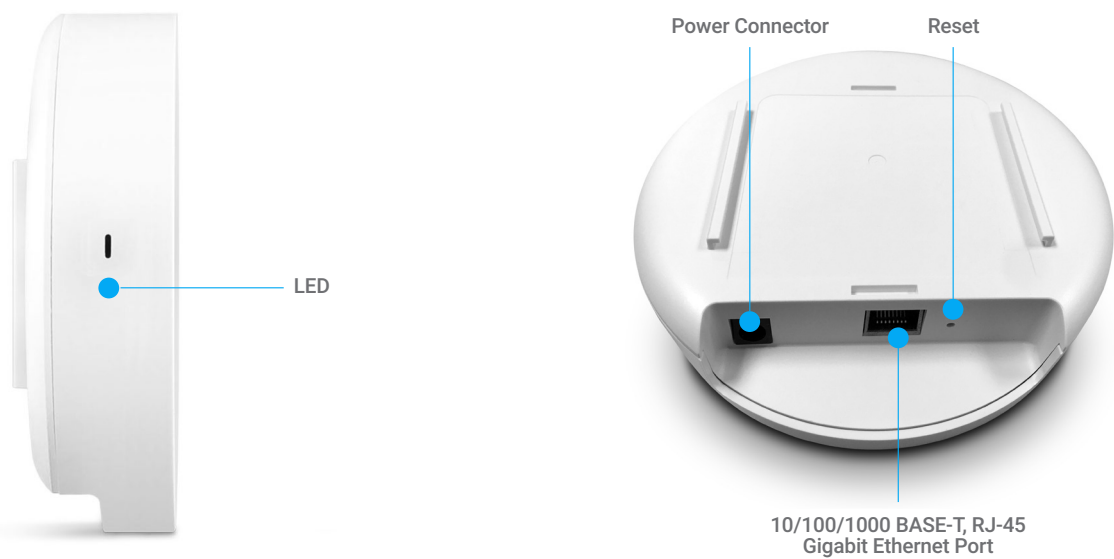
Technical Specifications continued

Physical Security	
Kensington Security Slot (N/A for EWS510AP)	
Device Dimensions and Weights	
EWS310AP	
Weight:	0.80 lbs. (362.8 g)
Length:	6.36" (161.5 mm)
Width:	6.36" (161.5 mm)
Height:	1.64" (41.6 mm)
EWS330AP	
Weight:	0.41 lbs. (0.18 g)
Diameter:	5.11" (130 mm)
Height:	1.57" (40 mm)
EWS350AP/ EWS355AP /EWS360AP	
Weight:	0.80 lbs. (362.8 g)
Length:	6.5" (165.1 mm)
Width:	6.5" (165.1 mm)
Height:	1.64" (41.6 mm)
EWS370AP/EWS371AP	
Weight:	3.7 lbs. (1.67 kg)
Length:	8.46" (215 mm)
Width:	8.46" (215 mm)
Height:	2.2" (55.8 mm)

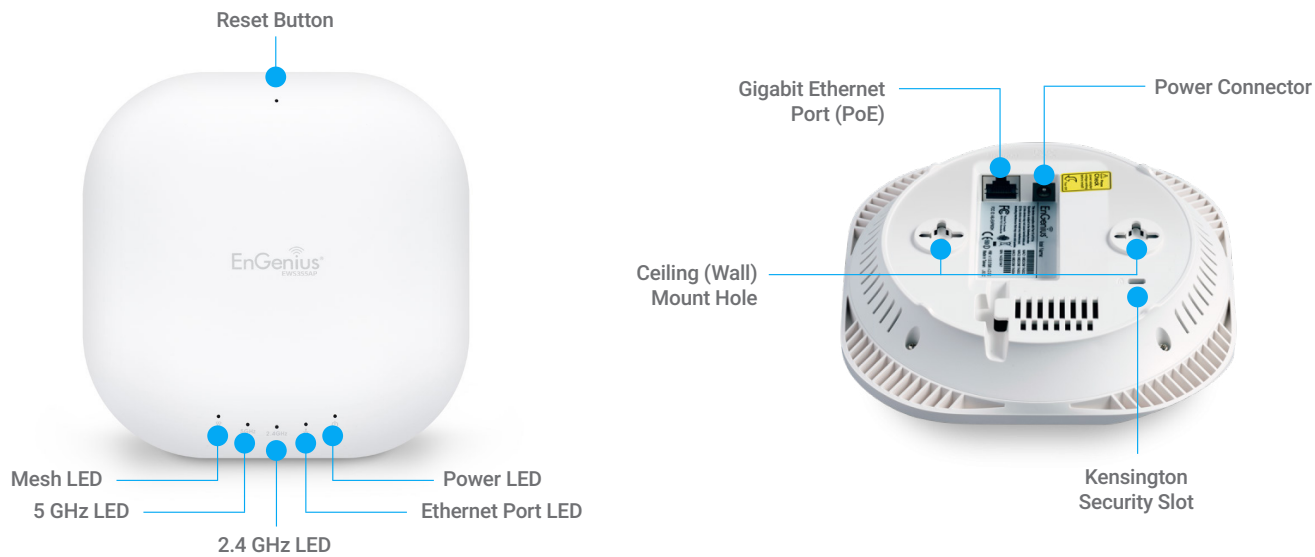
Device Dimensions and Weights Continued	
EWS510AP	
Weight:	0.65 lbs. (296 g)
Length:	1.45" (37 mm)
Width:	4.33" (110 mm)
Height:	5.19" (130 mm)
EWS550AP	
Weight:	1 lbs. (450 kg)
Width:	4.9" (125 mm)
Length:	7.4" (188 mm)
Height:	1" (26 mm)
Package Contents	
T-Rail Mounting Kits	
Ceiling and Wall Mount Screw Kits	
Mounting Brackets	
Quick Installation Guide	
EWS310AP/EWS350AP/EWS355AP/EWS360AP	
RJ45 Ethernet Cable	
EWS330AP*	
EWS330AP Dual-Band	
AC1300 Indoor Access Point	
T-Rail Mounting Kit	
Ceiling and Wall Mount Screw Kit	
Mounting Bracket	
RJ-45 Ethernet Cable	
Quick Installation Guide	

Package Contents Continued	
EWS370AP/EWS371AP	
Power Adapter (12V/2A)	
EWS371AP	
8 x Detachable RP-SMA Antennas	
EWS510AP	
Power Adapter (48VDC/0.8A)	
Mounting Bracket for J-Box	
Bracket Screws	
EWS550AP*	
Mounting Bracket for J-Box	
Wall Mount Screw Kits	
Certifications	
FCC, IC, CE	
Warranty	
1-Year Standard	
*Note: No Power Adapter included in EWS330AP-3Pack and EWS550AP	

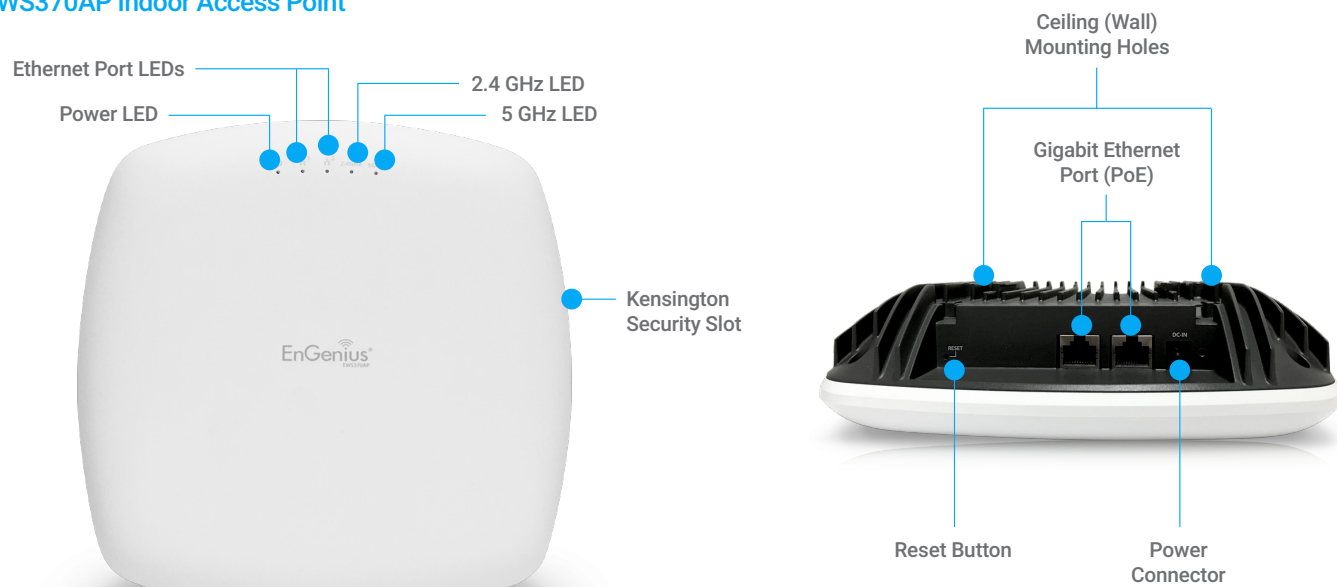
EWS330AP Indoor Access Point



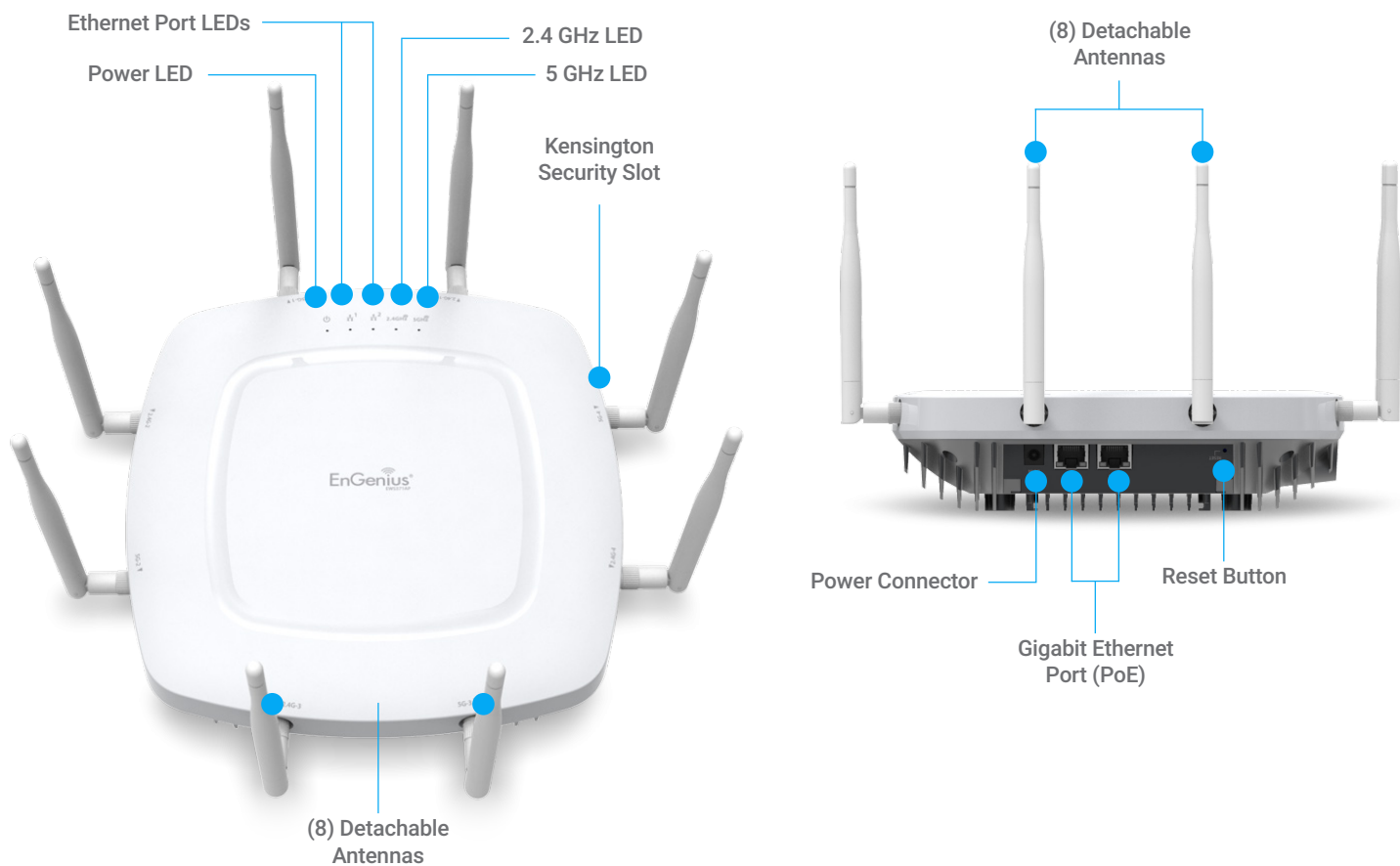
EWS310AP/EWS350AP/EWS355AP/EWS360AP Indoor Access Points



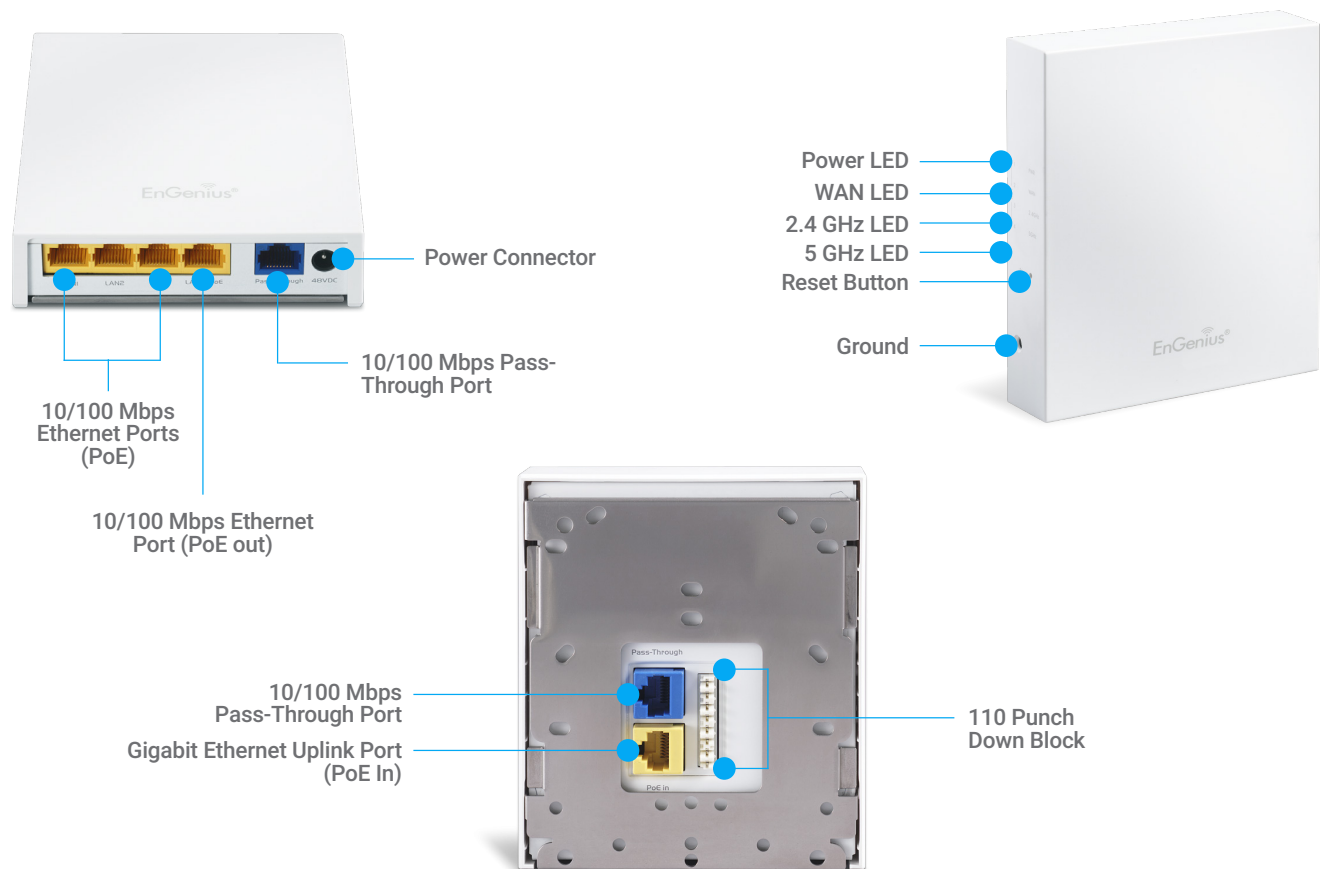
EWS370AP Indoor Access Point



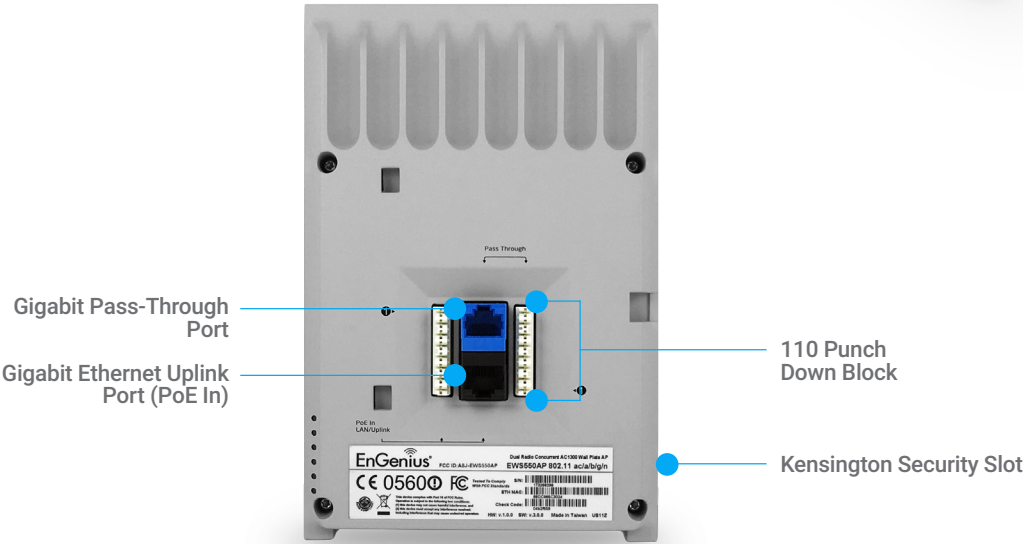
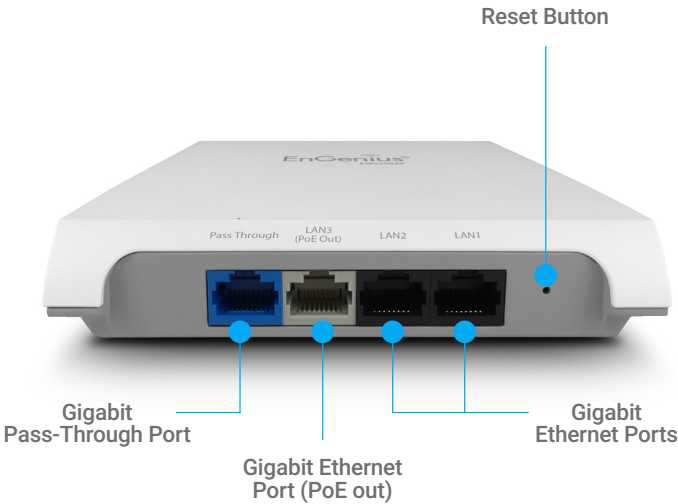
EWS371AP Indoor Access Point



EWS510AP Indoor Wall Plate Access Point



EWS550AP Indoor Wall Plate Access Point



Maximum data rates are based on IEEE 802.11 standards. Actual throughput and range may vary depending on distance between devices or traffic and bandwidth load in the network.

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Version 1.43 09/25/2018

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