



EnSky Series 11ax Indoor Access Points

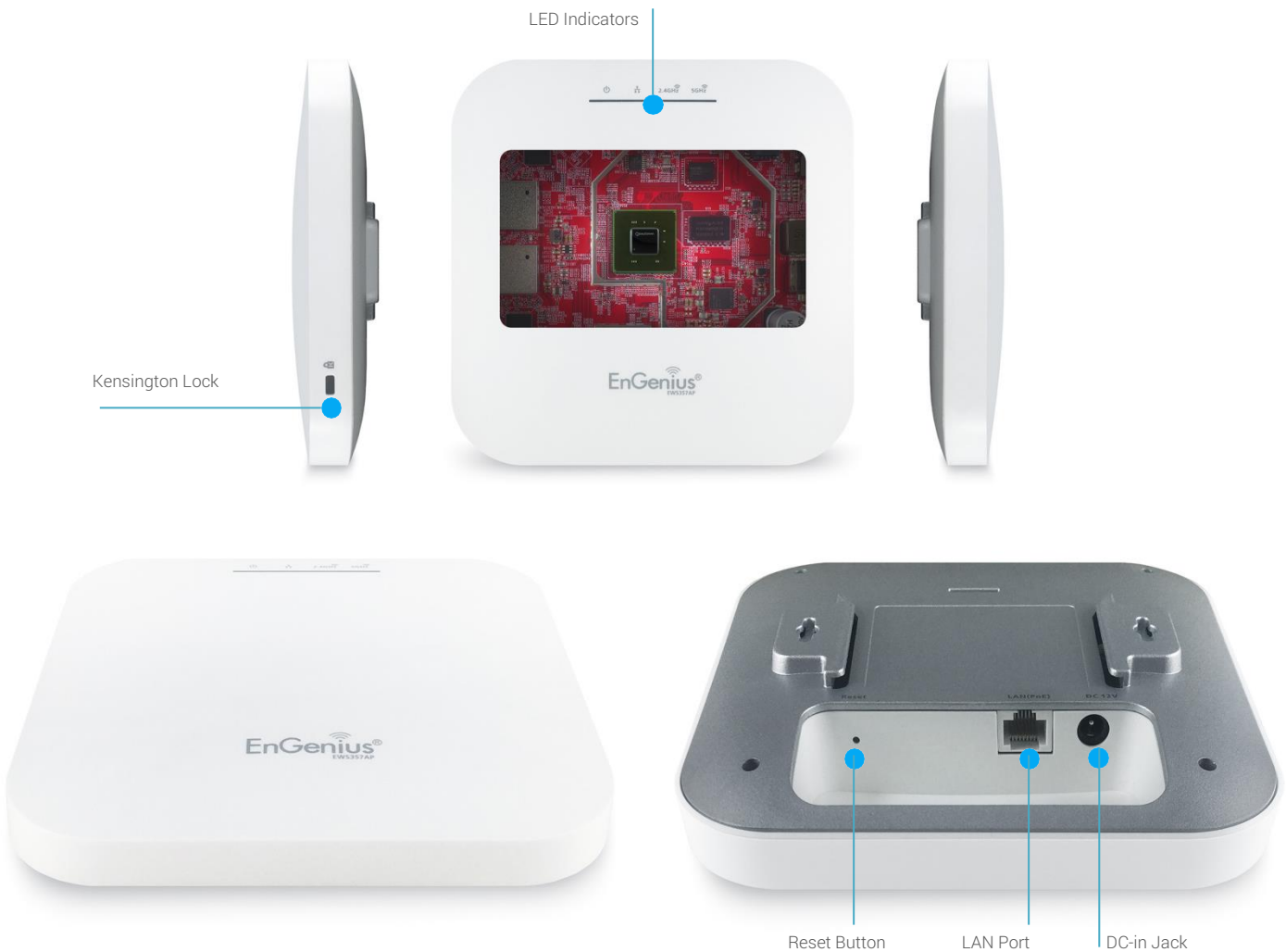
EnSky Series 11ax Indoor Managed Access Points

High Performance Reliability

Equipped with Qualcomm's latest chipset, the EnSky Series AX indoor access points feature AX technology, which deepens and expands the capabilities of wireless as well as fortifies SMB networks. The new 802.11ax technology builds upon realworld deployment of 11ac. As next-generation Wi-Fi, 11ax is no longer just about speeds but also about stronger, steadier, and more efficient wireless connections.

Features & Benefits

- High-capacity & high-efficient Wireless Technology
- Uplink & downlink of OFDMA for more efficient channel use
- 1024 QAM for 25% increase in throughput
- Target Wake Time (TWT) for power-saving wake times
- BSS Coloring for tagging packets with "color" to differentiate data
- Spatial reuse for simultaneous transmissions on same channel
- Uplink & downlink of MU-MIMO for optimal signal & reception reliability
- Operate as a stand-alone AP or centrally manage via switch
- Remotely manage 1-1000+ APs via ezMaster
- GbE PoE-compliant ports expand deployment & power options
- Low-profile designs for ceiling or wall mount



Next-Generation Wi-Fi

The EnSky Series AX Access Points take advantage of 11ax technology, which enables more efficient channel use, reduces latency between AP and client devices, and provides groundbreaking features, such as uplink and downlink of OFDMA, Target Wake Time, uplink and downlink of MU-MIMO, BSS Coloring, spatial reuse, and preamble updates.

11ax

- OFDMA (in both uplink and downlink): enables more efficient channel use, reduces latency between AP and client devices, and provides backward-compatibility with 2.4 GHz and 5 GHz
- 1024 QAM: boosts throughput by 25% and provides greater reliability in short distances
- BSS coloring: tags packets with a “color” to differentiate between adjacent basic service sets to potentially help minimize co-channel interference (CCI)
- Spatial reuse: identifies the different “colors” via BSS coloring and simultaneously transmits on the same channel, which reduces waiting time and lessens contention; determines whether the transmission will be deferred or reused on the channel
- Uplink & downlink of MU-MIMO: supports up to eight client devices and provides greater network efficiency, focuses radio energy on specific users, and ensures optimal signal and reception reliability
- Target Wake Time (TWT): reduces power consumption, schedules wake times, and extends client battery life of mobile and IoT devices
- Longer OFDM symbols: enables shorter wait times between data transmissions and tolerates more noise, which allows greater coverage

Flexibility in Deployment

EnSky’s new 11ax line of high-performance, managed, indoor ceiling- and wall-mount access points consists of 2x2 11ax dual-band for general use and a 4x4 dual-band 11ax version for high-capacity use that are ready to immediately deploy. Configure APs individually as stand-alone units, locally manage up to 50 per EWS switch or use ezMaster software to control 1000+ APs.

Optimize Connectivity With Wireless Mesh* on Selected Models

Utilize mesh access point mode on 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.

The Latest in Wi-Fi Security

With the EnSky 11ax access points, your network is protected by WPA3*, which delivers next-generation wireless security by making connecting client and IoT devices more secure and easier, as well as WPA2-AES. The high level of security expected and demanded by enterprises now protects SMBs as well.



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 11ax access points support 1 or 2.5 Gigabit PoE ports, enabling placement in discreet locations where power outlets are scarce or unavailable. Power the access points through a connected Ethernet cable directly to a EWS Managed Gigabit PoE+ switch or with a PoE adapter up to 100 meter from the power source.

Simplified Deployment & Provisioning

In combination with EWS Switches and ezMaster Network Management Software, EnSky 11ax 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 EWS Switches

In small settings, any EWS 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.

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.

EnSky Series 11ax Indoor Access Points



CEILING-MOUNT

Models	EWS377AP	EWS357AP
Standards	802.11a/b/g/n/ac/ax	802.11a/b/g/n/ac/ax
Frequency	2.4 GHz & 5 GHz	2.4 GHz & 5 GHz
2.4 GHz Max. Data Rate	1148 Mbps	574 Mbps
5 GHz Max. Data Rate	2400 Mbps	1200Mbps
Radio Chains/Streams	4 x 4:4	2 X 2:2
RF Output Power (2.4 GHz)	23 dBm	20 dBm
RF Output Power (5 GHz)	23 dBm	20 dBm
Ethernet Ports	1 x Port (PoE+) 2.5 Gigabit Ethernet	1 x Port (PoE) 1 Gigabit Ethernet
Power-over-Ethernet	802.3at	802.3af
Power Consumption (Peak)	19.5W	12.5W
Integrated Antenna	4 x 3 dBi @ 2.4 GHz 4 x 3 dBi @ 5 GHz	2 x 3 dBi @ 2.4 GHz 2 x 3 dBi @ 5 GHz

Technical Specifications

Standards

EWS377AP/EWS357AP

IEEE 802.11ax on 2.4 GHz

IEEE 802.11ax on 5 GHz

Backward compatible with 802.11b/g/n/ac

Processor

EWS377AP

Qualcomm® Quad-Core CPU ARM Cortex A53s @ 2.0GHz

EWS357AP

Qualcomm® Quad-Core CPU ARM Cortex A53s @ 1.0GHz

Antenna

EWS377AP

4 x 2.4 GHz: 3 dBi

4 x 5 GHz: 3 dBi

Integrated Omni-Directional Antenna

EWS357AP

2 x 2.4 GHz: 3 dBi

2 x 5 GHz: 3 dBi

Integrated Omni-Directional Antenna

Physical Interface

EWS377AP

1 x 10/100/1000/2500 NBASE-T, RJ-45 Gigabit Ethernet Port

1x DC Jack

1 x Reset Button

Physical Interface

EWS357AP

1 x 10/100/1000 BASE-T, RJ-45 Gigabit Ethernet Port

1x DC Jack

1 x Reset Button

LED Indicators

EWS377AP

1 x Power

1 x LAN

1 x 2.4 GHz

1 x 5 GHz

EWS357AP

1 x Power

1 x LAN

1 x 2.4 GHz

1 x 5 GHz

Power Source

EWS377AP

Power-over-Ethernet: 802.3at Input

12VDC/2A Power Adapter (not included)

EWS357AP

Power-over-Ethernet: 802.3af Input

12VDC/1.5A Power Adapter (not included)

Maximum Power Consumption

EWS377AP 19.5W

EWS357AP 12.5W

Wireless & Radio Specifications

EWS377AP/EWS357AP

Dual-Radio Concurrent 2.4 GHz & 5 GHz

Operation Modes

EWS377AP/EWS357AP

Managed mode: AP, AP Mesh, Mesh

Stand alone: AP, AP Mesh, Mesh

Operating Frequency

EWS377AP/EWS357AP

2.4 GHz: 2400 MHz ~ 2835 MHz

5 GHz: 5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz, 5725 MHz ~ 5850 MHz

Supported radios and channels will vary on the configured regulatory domain.

Transmit Power

EWS377AP

Up to 23 dBm on 2.4 GHz

Up to 23 dBm on 5 GHz

(Maximum power is limited by regulatory domain)

EWS357AP

Up to 20 dBm on 2.4 GHz

Up to 20 dBm on 5 GHz

(Maximum power is limited by regulatory domain)

Tx Beamforming (TxBF)

EWS377AP/EWS357AP

Radio Chains/Spatial Stream

EWS377AP 4x4

EWS357AP 2x2

SU-MIMO

EWS377AP

Four spatial stream SU-MIMO for 2.4GHz and four spatial stream SU-MIMO for 5GHz up to 3548 Mbps wireless data rate to a single wireless client device under the both 2.4GHz and 5GHz radio.

EWS357AP

Two spatial streams SU-MIMO for 2.4GHz and two spatial streams SU-MIMO for 5GHz up to 1774Mbps wireless data rate to a single 11ax wireless client device under the both 2.4GHz and 5GHz radio.

MU-MIMO

EWS377AP

Four spatial streams Multiple (MU)-MIMO for up to 2400 Mbps wireless data rate to transmit to two streams MU-MIMO 11ax capable wireless client devices under 5GHz simultaneously.

Four Multiple (MU)-MIMO for up to 1148 Mbps wireless data rate to transmit to two streams MU-MIMO 11ax capable wireless client devices under 2.4GHz simultaneously.

EWS357AP

Two spatial streams Multiple (MU)-MIMO for up to 1200 Mbps wireless data rate to transmit to one devices under 5GHz simultaneously.

Two Multiple (MU)-MIMO for up to 574 Mbps wireless data rate to transmit to one two streams MU-MIMO 2.4GHz simultaneously.

Supported Data Rates (Mbps)

EWS377AP

802.11ax:
2.4 GHz: 9 to 1148 (MCS0 to MCS11, NSS = 1 to 4)
5 GHz: 18 to 2400 (MCS0 to MSC11, NSS = 1 to 4)

802.11b: 1, 2, 5.5, 11

802.11a/g: 6, 9, 12, 18, 36, 48, 54

802.11n: 6.5 to 600 Mbps (MCS0 to MCS31)

802.11ac:
6.5 to 1733 Mbps (MCS0 to MCS9, NSS= 1 to 4)

EWS357AP

802.11ax:
2.4 GHz: 9 to 287 (MCS0 to MCS11, NSS = 1 to 2)
5 GHz: 18 to 1200 (MCS0 to MSC11, NSS = 1 to 2)

802.11b: 1, 2, 5.5, 11

802.11a/g: 6, 9, 12, 18, 36, 48, 54

802.11n: 6.5 to 300 Mbps (MCS0 to MCS15)

802.11ac:
6.5 to 867 Mbps (MCS0 to MCS9, NSS = 1 to 2)

Supported Radio Technologies

EWS377AP/EWS357AP

802.11ax: Orthogonal Frequency Division Multiple Access (OFDMA)

802.11b: Direct-sequence spread-spectrum (DSSS)

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

Channelization

EWS377AP/EWS357AP

802.11ax supports high efficiency (HE)
–HE20/HE40/HE80 MHz

802.11ac supports very high throughput (VHT)
–VHT 20/40/80 MHz

802.11n supports high throughput (HT)
–HT 20/40 MHz

802.11n supports very high throughput under the 2.4GHz radio –VHT40 MHz (256-QAM)

802.11n/ac/ax packet aggregation: A-MPDU, A-SPDU

Supported Modulation

EWS377AP/EWS357AP

802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM

802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM

802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM

802.11b: BPSK, QPSK, CCK

Management Multiple BSSID

EWS377AP/EWS357AP

8 SSIDs for both 2.4GHz and 5GHz radios

VLAN Tagging

EWS377AP/EWS357AP

Supports 802.1q SSID-to-VLAN Tagging

Cross-Band VLAN Pass-Through

Management VLAN

Spanning Tree

EWS377AP/EWS357AP

Supports 802.1d Spanning Tree Protocol

QoS (Quality of Service)

EWS377AP/EWS357AP

Complaint With IEEE 802.11e Standard

WMM

SNMP

EWS377AP/EWS357AP

v1, v2c, v3

MIB

EWS377AP/EWS357AP

I/I, Private MIB

Management Features Deployment Options

EWS377AP/EWS357AP

Stand-Alone (Individually Managed)

Managed Mode
(with EWS Series Switch/ezMaster)

Stand-Alone Management Features

EWS377AP/EWS357AP

Auto Channel Selection

Auto Transmit Power

Wireless STA (Client)

Connected List Auto Channel Selection

Captive Portal Per SSID

Fast Roaming (802.11k & 802.11r)

Pre-Authentication (802.11i, 802.11x)

PMK Caching (802.11i)

Band Steering per SSID

Traffic Shaping per SSID/per user

VLAN Per SSID

Backup/Restore Settings

Auto Reboot

E-Mail Alert

Site Survey

Save Configuration as Users' Default

EWS377AP-VLANs for Access Point – Multiple SSIDs

Wireless Management Features (With ezMaster & EWS Switch)

EWS377AP/EWS357AP

AP Auto Discovery & Provisioning

AP Auto IP Assignment

AP Group Management

Auto AP Rebooting

AP Device Name Editing

Band Steering Per SSID

Traffic Shaping Per SSID and Per User

Fast Roaming (802.11k & 802.11r)

Fast Roaming (802.11v)
By default enabled

Pre-Authentication (802.11i, 802.11x)

PMK Caching (802.11i)

AP Client Limiting

Client Fingerprinting

AP VLAN Management

VLAN Per SSID

Captive Portal Per SSID

Multi-Tenant Account

AP Traffic Log

Access Point Status Monitoring

Wireless Client Monitoring

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

One-Click Update

Intelligent Diagnostics

Kick/Ban Clients

Wi-Fi Scheduler

Schedule reboot

Wireless Security

EWS377AP/EWS357AP

WPA3

WPA2 Enterprise (AES)

Hide SSID in Beacons

MAC Address Filtering, Up to 32 MACs per SSID

Wireless STA (Client) Connected List

SSH Tunnel

Client Isolation

Environment & Physical Temperature Range

EWS377AP/EWS357AP

Operating: 0 °C~40 °C

Storage: -30 °C~80 °C

Humidity (non-condensing)

EWS377AP/EWS357AP

Operating: 90% or less

Storage: 90% or less

Product Dimensions & Weights

EWS377AP

Dimensions: 210 x 210 x 33.2 mm

Weight: tba

EWS357AP

Dimensions: 160 x 160 x 33.2 mm

Weight: tba

Retail Packaging

EWS377AP

Dimensions: 245 x 245 x 85 mm

Weight: 0.866kg

EWS357AP

Dimensions: 205 x 205 x 83 mm

Weight: 0.58Kg

Master Carton

EWS377AP

Dimensions: 502 x 442 x 254 mm

Weight: 9.66kg

Qty. of boxes per carton: 4 units

EWS357AP

Dimensions: 450 x 430 x 230 mm

Weight: 6.8kg

Qty of boxes per carton: 10 units

Package Contents

EWS377AP

1x Dual-Band AX3600 Indoor Access Point

1x Ceiling Mount Base (9/16" T-rail)

1x Ceiling Mount Base (15/16" T-rail)

1x Ceiling and Wall Mount Screw Kits

1x Quick Installation Guide

EWS357AP

1x Dual-Band AX1800 Indoor Access Point

1x Ceiling Mount Base (9/16" T-rail)

1x Ceiling Mount Base (15/16" T-rail)

1x Ceiling and Wall Mount Screw Kits

1x Quick Installation Guide

Certifications

EWS377AP/EWS357AP

FCC

Subpart15 B

Subpart C 15.247

Subpart E 15.407

CE

EN 300 328

EN 301 893

EN 301 489-1/-17

EN 50385

EN 55032

EN 55035

EN 60950-1

EN 62368-1

RED 2014/53/EU

Low Voltage Directive 2014/30/EU

CB

IEC 60950-1/IEC 62368-1

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