EnGenius® Product Catalogue 2017

EnGenius Networks, is a global networking expert in wireless communications and radio frequency (RF) technology with the HQs based in Taiwan. The company delivers feature-rich, long range wireless communications technology and solutions for Enterprise, Small-and-Medium Business, and Consumer markets. The versatility and performance of the company's solutions deliver ease-of-use with robust performance that lower total cost of ownership, increase productivity and maximize return on investment.

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Distributed Network Management Solution

The Neutron Series

Flexible, Scalable, Enterprise-Class Management for Networks Both Large and Small

Today's networks must be flexible, robust and as effective as the organizations they serve. Often comprised of different sizes, infrastructures and locations, these distributed networks can place an enormous burden on in-house IT personnel or managed service providers looking to manage, monitor and upgrade a potentially vast number of Access Points and Switches.

Fortunately, EnGenius has the answer: the **Neutron Series Distributed Network Management Solution**.

This highly flexible, scalable, fully integrated sol tion offers simplified configuration and management with enterprise-class performance, feature-rich Managed Access Points, WLAN Controller Switches and ezMaster™ Centralized Network Management, at an incredible price point – **with NO AP licensing, subscription or ech support fees.**

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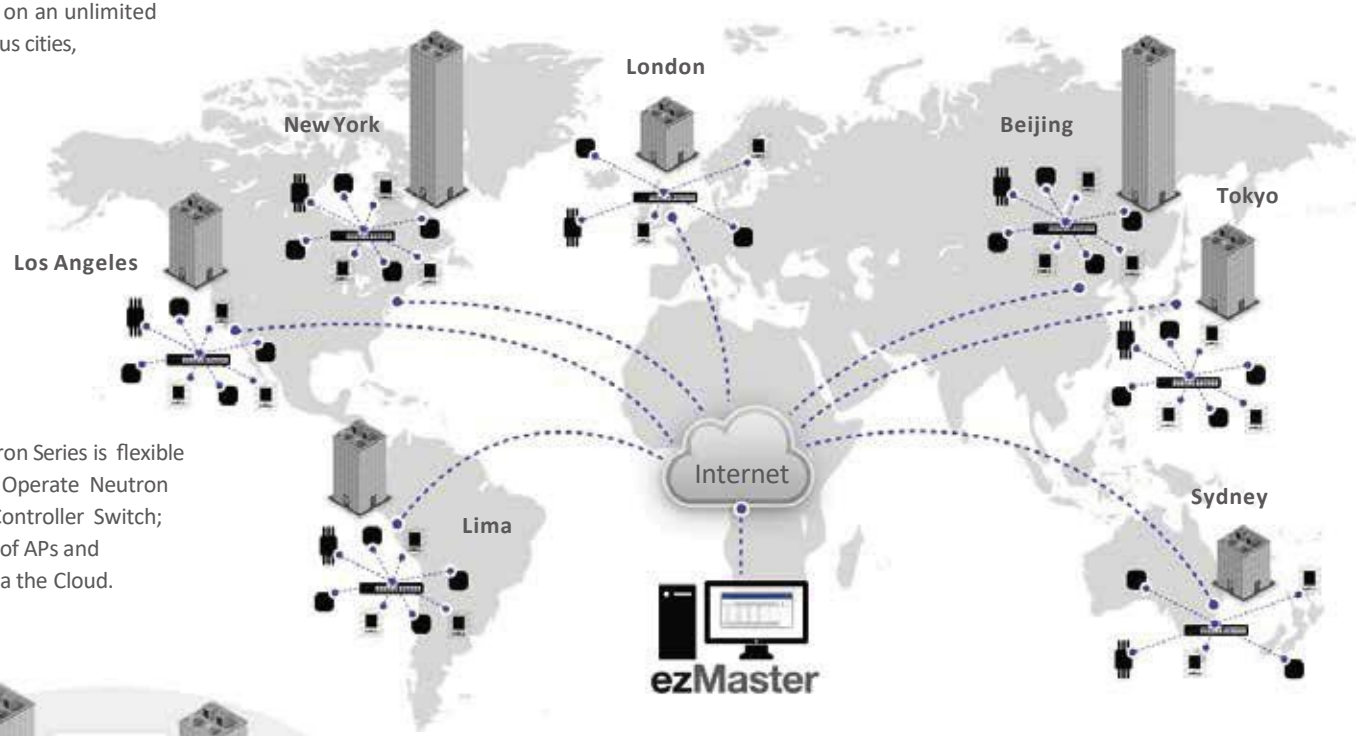
The Neutron Series | Distributed Network Management Solution

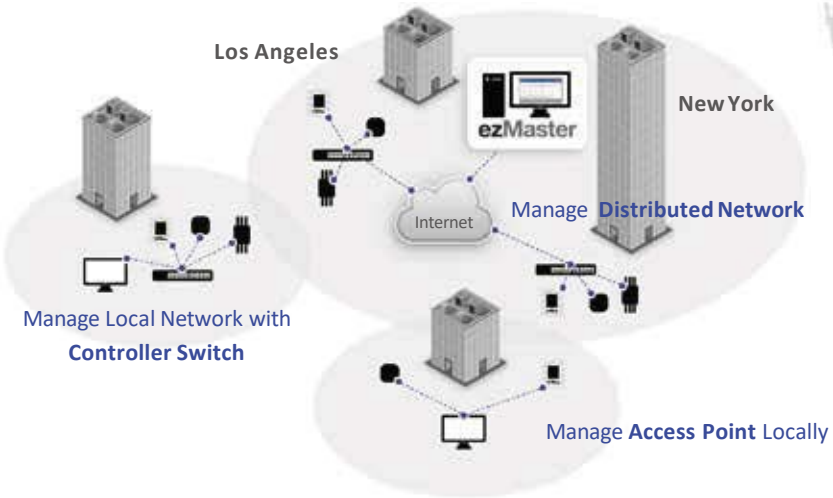
Complete Scalability Regardless of Size

Want to start small or go big? You can do both with the Neutron Series. The solution makes it easy to deploy and manage a few or 1,000+ APs, and Switches and 10,000+ concurrent users on an unlimited number of networks distributed across various cities, regions or countries, regardless of their size and infrastructure.



Unlimited Flexibility

No matter what your business size, the Neutron Series is flexible enough to meet the needs of your network. Operate Neutron APs alone or manage up to 50 per Neutron Controller Switch; and centrally manage an unlimited number of APs and Switches via ezMaster locally, remotely or via the Cloud.



Enjoy Lower Capital & Operating Expenses

Many competing solutions require costly hardware, per AP licensing, and annual subscription and tech support fees. Not with the Neutron Series. Since it's also easy to deploy, manage and operate, you'll save valuable time and resources, all translating to affordable, predictable costs – and a lower TCO per deployment.

The Neutron Series | Distributed Network Management Solution - continued

The Neutron Series delivers enterprise-class features that simplify deployment and management, maximizing wireless performance for any size network, no matter where it's located.

Optimized Wireless Performance

Continuously monitor the RF environment, including neighboring APs, with Background Scanning, and enable automatic control of AP transmission power and channel allocation ensuring optimized RF coverage and wireless performance. Configure multiple APs for Fast Roaming, securing seamless connectivity as mobile users move between Access Points.

Provide for maximum client performance as Band Steering automatically directs clients to the appropriate RF channel, while Band Balancing intelligently works to maintain a balanced number of clients per AP.

Distributed Control, Centralized Management with ezMaster

Centrally manage an unlimited number of independent distributed networks from a single, at-a-glance dashboard, no matter where they're located. Manage 1,000+ Neutron APs and Controller Switches and 10,000+ concurrent users.

ezMaster makes centralized network management easy through bulk configuration, provisioning and monitoring; rich analytics, reporting, and much more. Monitor APs with or without an onsite Controller Switch, and have the flexibility to deploy ezMaster on a local or remote server.

Simplified Deployment & Provisioning

Save time and resources with Neutron Series' easy-to-use web interface, simplified management and one-click updates. Automated AP provisioning and intuitive configuration tools help streamline mass AP deployments. And since the Neutron Series is easy to deploy, manage and operate, with no extensive learning curve, you'll spend less on administrative overhead, travel costs and training.

Versatile AP Portfolio Features High-Capacity 11ac

Neutron's versatile line of high-performance, managed, indoor ceiling-mount and outdoor ruggedized APs range from Single-Band 11n models to high-capacity 4x4 Dual-Band 11ac versions, all featuring Power-over-Ethernet (PoE) convenience. For added versatility, Neutron APs can operate as a standalone device, be managed through a Neutron Controller Switch or centrally managed via ezMaster software.

Create Secure, Branded Captive Portals

Organizations that offer Internet access to patrons or visitors – notably hotels, retail shops and restaurants – will appreciate Neutron's Captive Portal and Guest Network capabilities.

Establish a secure Guest Network that blocks access to main corporate computers and create separate Virtual LANs for increased security, network reliability and bandwidth conservation.

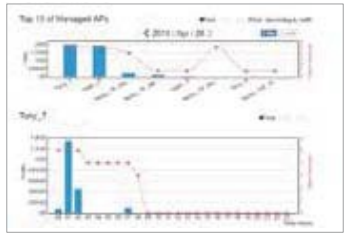
Perfect Flexibility for Managed Service Providers

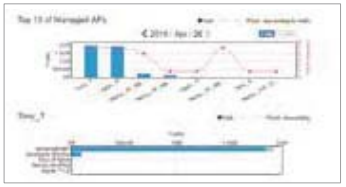
If you're a managed service provider (MSP) the EnGenius Neutron Series is ideal for you. Easily provision, configure, manage and update network devices for all of your customers – from a single console and login, regardless of network size, location, infrastructure or ISP. Saving you a tremendous amount of time, travel and cost.

The Neutron Series | Distributed Network Management Solution - continued

Rich Reporting & Analytics

A wealth of invaluable reporting, analytics and real-time monitoring tools, with email alerts, give IT management instant insight into system efficiencies and issues. With tools like wireless client monitoring, and traffic and usage statistics, potential problems can be pinpointed and addressed before they effect users. Neutron provides centralized network visibility in areas such as traffic flow, demand, network topology and more.





> **Statistics View** provides real-time and historical visibility of traffic flow.

Comprehensive Network Protection

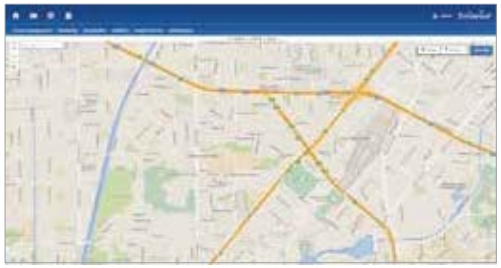
With the Neutron Series, your network is protected from attacks at multiple levels through advanced wireless encryption standards such as Wi-Fi Protected Access Encryption and authentication database, 802.1X with RADIUS server. Network threats are quickly detected and avoided through rogue AP detection, email alerts and real-time wireless invasion monitoring, allowing for immediate action to divert network hacks and other security threats.

The Neutron Series Distributed Network Management Solution is ideal for:

- Healthcare organizations
- Public sectors
- Schools
- Large, geographically diverse organizations
- Pro audio/visual companies
- Hotels & resorts
- Managed Services Providers (MSPs)

> **Floor View** allows administrators to upload floor plans and drop AP markers for a visual representation of any network on the system.

> **Topology View** automatically maps network deployment and displays device relationships.



> With **Map View** you can quickly drop AP markers and locate deployed APs across cities, regions or countries.

ezMaster | Network Management Software

Flexible Distributed Network Management

ezMaster Network Management Software expands the flexibility and scalability of Neutron Series Managed Access Points and WLAN Controller 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 and Controller Switches across geographically diverse properties. Centrally manage an unlimited number of independent distributed networks in the same subnet or cross-subnet from a single, at-a-glance network dashboard, no matter where they're located.

Deploy ezMaster locally, remotely with or without an onsite WLAN Controller Switch.

Simplified Device Management

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

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
- Captive Portal
- Email Alert
- Kick/Ban Clients
- One-Click Update
- Remote Logging

The Neutron Series | Complete Line of Products

Model	Description
EWS7952FP	48-Port GigE 740W PoE+WLAN Management Controller/Switch - Manage up to 50APs
EWS1200-52TP	48-Port GigE 410W PoE+WLAN Management Controller/Switch - Manage up to 50APs
EWS1200-28TFP	24-Port GigE 410W PoE+WLAN Management Controller/Switch - Manage up to 50APs
EWS7928P	24-Port GigE 185W PoE+WLAN Management Controller/Switch - Manage up to 50APs
EWS5912FP	10-Port GigE 130W PoE+WLAN Management Controller/Switch - Manage up to 50APs
EWS2910P	8-Port GigE 61.6W PoE WLAN Management Controller/Switch - Manage up to 20APs
EWS1200-52T	48-Port Gigabit WLAN Management Controller/Switch - Manage up to 50APs
EWS1200-28T	24-Port Gigabit WLAN Management Controller/Switch - Manage up to 50APs
EWS1200D-10T	8-Port Gigabit WLAN Management Controller/Switch - Manage up to 20APs

AC / N

Model	Description
EWS380AP	Tri-Band Ceiling-mount Wireless AC2100 Managed Indoor Access Point
EWS371AP	Dual Band Ceiling-mount Wireless AC2600 Managed Indoor Access Point; Ext Antenna
EWS370AP	Dual Band Ceiling-mount Wireless AC2600 Managed Indoor Access Point
EWS360AP	Dual Band Ceiling-mount Wireless AC1750 Managed Indoor Access Point
EWS350AP	Dual Band Ceiling-mount Wireless AC1200 Managed Indoor Access Point
EWS310AP	Dual Band Ceiling-mount Wireless N600 Managed Indoor Access Point
EWS300AP	Single Band 2.4 GHz Ceiling-mount Wireless N300 Managed Indoor Access Point

N

Model	Description
EWS550AP	Dual Band Wireless AC1200 Managed Wall Plate Access Point
EWS510AP	Dual Band Wireless N600 Managed Wall Plate Access Point
EWS500AP	Single Band 2.4GHz Wireless N300 Managed Wall Plate Access Point

AC / AC

Model	Description
EWS871AP	Dual Band Wireless AC2600 Ruggedized Managed Outdoor Access Point; Ext Antenna
EWS870AP	Dual Band Wireless AC2600 Ruggedized Managed Outdoor Access Point
EWS860AP	Dual Band Wireless AC1750 Ruggedized Managed Outdoor Access Point; Ext Antenna
EWS660AP	Dual Band Wireless AC1750 Managed Outdoor Access Point
EWS650AP	Dual Band Wireless AC1200 Managed Outdoor Access Point

Features and Benefits

Complete Scalability

- Manage 1 – 1,000+ APs & Switches
- 10,000+ Concurrent Users
- Unlimited Number of Distributed Networks

Unlimited Flexibility

- Operate Neutron APs Standalone or Managed
- Locally Manage up to 50 APs per Switch
- Manage Unlimited APs & Switches with ezMaster™

Greater Affordability

- NO AP Licensing, NO Annual Subscriptions, NO Technical Support Fees
- Affordable Hardware
- Save Time & Resources
- Lower TCO per Deployment

Neutron Series Distributed Network Management

- Centralized Management with ezMaster
- Full Featured WLAN Controller Switches
- Versatile Access Point Portfolio

> **Optimize Wireless Performance**

> **Create Secure, Branded Captive Portals**

> **Simplified Deployment & Provisioning**

> **Comprehensive Network Protection**

> **Rich Reporting & Analytics**

> **Enterprise-Class Performance**

> **Comprehensive Pre/Post Sales & Customer Support**

PoE Gigabit Managed Smart Switch with WLAN controller

Developing

Models	EWS7952FP	EWS1200-52TP	EWS1200-28TFP	EWS7928P
Supported EWS AP	50	50	50	50
10/100/1000 Base-T	48	48	24	24
Total PoE Budget	740W	410W	410W	185W
PoE Capable Port	1-48	1-48	1-24	1-24
PoE Standard	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at
Form Factor	19"1U	19"1U	19"1U	19"1U
SFP Ports	4	4	4	4
RJ45 Console Port				
Annual License Fee Per AP	$0	$0	$0	$0

A Full-Featured Platform

EnGenius Neutron Series Controller Switches are a powerful, full-feature platform capable of managing up to 50 Neutron Managed Access Points per Switch, while providing future expandability for broader device connectivity.

Acting as a wireless network controller, Neutron Controller Switches give IT administrators visibility into all Neutron Series connected devices. This allows them to be grouped into clusters with the same settings and policies applied automatically.

Available in 8-, 24- and 48-port models, each Neutron Series Controller Switch supports Power-over-Ethernet (PoE), delivering up to 30 watts per port for powering devices like APs, IP Cameras, and VoIP (Voice-over-IP) phone systems. Neutron Controller Switches also provide improved network efficiency, security, and AP management through full Layer 2 management tools.

Key Feature

- Access Point Auto Discovery & Provisioning
- Access Point Auto IP-Assignment
- Access Point Cluster Management
- Visual Topology View
- Floor Plan & Map View
- Wireless Coverage Display
- Access Point Status Monitoring
- Wireless Client Monitoring
- Wireless Traffic & Usage Statistics
- Real-time Throughput Monitoring
- Bulk Firmware Upgrade Capability
- Remote Access Point Rebooting
- Fast Roaming
- Band Steering
- Traffic Shaping
- Intelligent Diagnostics
- Access Point Device Name Editing
- Access Point Radio Settings
- Access Point Client Limiting
- Wireless Security (WEP, WPA/WPA2 Enterprise, WPA/WPA2 PSK)

PoE Gigabit Managed Smart Switch with WLAN controller - continued

Developing

Developing

Models	EWS5912FP	EWS2910P	EWS1210-52TP	EWS1210-26TFP
Supported EWS AP	50	20	50	50
10/100/1000 Base-T	10	8	48	24
Total PoE Budget	130W	61.6W	410W	410W
PoE Capable Port	1-8	1-8	1-48	1-24
PoE Standard	IEEE 802.3af/at	IEEE 802.3af	IEEE 802.3af/at	IEEE 802.3af/at
Form Factor	13"1U	Desktop	19"1U	19"1U
SFP Ports	2	2	4 x SFP+	2 x SFP+
RJ45 Console Port		-		
Annual License Fee Per AP	$0	$0	$0	$0

Gigabit Managed Smart Switch with WLAN Controller

Developing

Developing

Models	EWS1200-52T	EWS1200-28T	EWS1200D-10T	EWS1210-52T	EWS1210-26T
Supported EWS AP	50	50	20	50	50
10/100/1000 Base-T	48	24	8	48	24
Form Factor	19"1U	19"1U	Desktop	19"1U	19"1U
SFP Ports	4	4	2	4 x SFP+	2 x SFP+
RJ45 Console Port			-		
Annual License Fee Per AP	$0	$0	$0	$0	$0

Outdoor Managed Access Points

Coming Soon

Coming Soon

Models	EWS871AP	EWS870AP	EWS860AP	EWS660AP	EWS650AP
Standards	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/b/g/n/ac
Frequency	2.4 & 5 GHz	2.4 & 5 GHz	2.4 & 5 GHz	2.4 & 5 GHz	2.4 & 5 GHz
2.4 GHz Max. Data Rate	800 Mbps	800 Mbps	450 Mbps	450 Mbps	300 Mbps
5 GHz Max. Data Rate	1,733 Mbps	1,733 Mbps	1,300 Mbps	1,300 Mbps	867 Mbps
Radio Chains/Streams	4x4:4	4x4:4	3x3:3	3x3:3	2x2:2
Ingress Protection Rating	IP67	IP67	IP68	IP55	IP55
Primary Ethernet Port	1 x Gigabit Port	1 x Gigabit Port	1 x Gigabit Port	1 x Gigabit Port	1 x Gigabit Port
Secondary Ethernet Port	1 x Gigabit Port (PoE Output)	1 x Gigabit Port (PoE Output)	1 x Gigabit Port (PoE Output)	1 x Gigabit Port	1 x Gigabit Port
PoE Compliant	802.3at+/at	802.3at+/at	802.3at	802.3at	802.3at
Console	RJ45 Console	RJ45 Console	-	-	-
Antennas	8 x External (N-type)	8 x Internal	6 x External (N-type)	6 x Internal	4 x Internal

Versatile Portfolio of Managed Access Points

EnGenius offers one of the broadest Access Point portfolios available. The Neutron Series' versatile line of high-performance, managed indoor and outdoor APs range from affordable, Single-Band 11n models to high-capacity 4x4 Dual-Band 11ac versions, all with Power-over-Ethernet (PoE) convenience.

Neutron Access Points include sleek, low profile Indoor Ceiling-Mount APs and Wall Plate AP/Switches that provide an all-in-one communications hub for hotel guest rooms, and multi-tenant dwellings to powerful, slim line, IP-rated outdoor and industrial, ruggedized APs that extend the network beyond. Neutron Managed APs are sure to meet a variety of application needs for both large and small networks alike.

For added versatility, deploy as a standalone Access Point or part of a scalable Neutron Solution managed via a Neutron Controller Switch or centrally managed with ezMaster software.

Key Feature

- Tough IP68- and IP55-Rated Housings
- 802.11ac Wireless Speeds
- Dynamic Channel Optimization
- Dual-Band Concurrent Architecture
- Band Steering
- Seamless Roaming, Fast Handover
- Supports Connectivity of 100+ Users
- 16 SSIDs (8 SSIDS per frequency band)
- Wireless Traffic Shaping
- QoS
- SSID-to-VLAN Mapping
- Email Alert
- Wi-Fi Scheduler
- Auto-Reboot
- AP Detection

Indoor Managed Access Points

Developing | Coming Soon | Coming Soon

Models	EWS380AP	EWS371AP	EWS370AP	EWS360AP	EWS350AP	EWS310AP	EWS300AP
Standards	802.11ac/a/b/g/n	802.11ac/a/b/g/n	802.11ac/a/b/g/n	802.11ac/a/b/g/n	802.11ac/a/b/g/n	802.11a/b/g/n	802.11b/g/n
Frequency	2.4 & 5 GHz	2.4 & 5 GHz	2.4 & 5 GHz	2.4 & 5 GHz	2.4 & 5 GHz	2.4 & 5 GHz	2.4GHz
2.4 GHz Max. Data Rate	400 Mbps	800 Mbps	800Mbps	450 Mbps	450 Mbps	300 Mbps	300 Mbps
5 GHz Max. Data Rate	867Mbps+867Mbps	1,733 Mbps	1,733 Mbps	1,300 Mbps	867 Mbps	300 Mbps	-
Radio Chains/Streams	2x2+2x2+2x2	4x4:4	4x4:4	3x3:3	2x2:2	2x2:2	2x2:2
Ethernet Ports	2 x Gigabit Ports	2 x Gigabit Ports	2 x Gigabit Ports	1 x Gigabit Port	1 x Gigabit Port	1 x Gigabit Port	1 x Gigabit Port
PoE Compliant	802.3at	802.3at	802.3at	802.3at	802.3at	802.3af/at	802.3af
Antenna	6 x Internal	8 x External (SMA)	8 x Internal	6 x Internal	4 x Internal	4 x Internal	4 x Internal

Wall Plate

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Developing

Models	EWS510AP	EWS500AP	EWS550AP
Standards	802.11a/b/g/n	802.11b/g/n	802.11a/b/g/n/ac
Frequency	2.4 & 5 GHz	2.4GHz	2.4 & 5 GHz
2.4 GHz Max. Data Rate	300 Mbps	300 Mbps	300 Mbps
5 GHz Max. Data Rate	300 Mbps	N/A	867 Mbps
Radio Chains/Streams	2x2:2	2x2:2	2x2:2
Ethernet Ports	1 x 10/100/1000Mbps Uplink Port 4 x 10/100Mbps Access Port (with 1 x PoE Out)	1 x 10/100/1000Mbps Uplink Port 4 x 10/100Mbps Access Port (with 1 x PoE Out)	1 x 10/100/1000Mbps Uplink Port 3 x 10/100Mbps Access Port (with 1 x PoE Out)
PoE Compliant	802.3af/at	802.3af/at	802.3af/at
RJ45 Pass-through			
Antenna	4 x Internal	4 x Internal	4 x Internal

Expanded Network Solution

The Electron Series

The EnGenius Electron Series is an expansive line of mix-and-match business-class networking solution that, when used together, can provide instant network expansion and connectivity to start-up companies, existing small businesses or provide additional robust and reliable connectivity on the edge of larger enterprise networks.

The solution also enhances the productivity of employees in work environments by enabling them to stay connected to colleagues, networked company resources and a company's Internet connection, provide connectivity to students and faculty in campus network deployments or to a hotel or resort's services and Internet for guests and staff throughout their properties — all at a significantly lower total cost of ownership than most enterprise brands.

Comprehensive Security

The EnGenius Electron Series supports robust security features such as SSL Certificate and 802.1x. In addition, the Electron series Switches also support a complete lineup of advanced Layer 2 features; including secure control connections between Switches and Access Points, Port mirroring, STP/RSTP/MSTP, Link Aggregation Control Protocol (LACP), SNMP v1/v2/v3, RMON, and ACL for extensive network security and more.

To protect internal Electronics, the Electron Series Outdoor Access Points have been mounted in an IP55/IP65/IP67/IP68 rated enclosures, one of the highest waterproof and dustproof ratings available, designed to withstand extremely harsh environmental conditions. The Electron Series Indoor Access Points come housed in discreet white housings to blend in with any environment, and all Electron Series Switches come with the ability to be either desk or rack mounted.

Multiple Mode AP/Client Bridges for Virtually any type of Network

Many of the Access Points in the EnGenius Electron Series can be configured as standard Access Points or Client Bridges. In a point-to-multi-point scenario, an AP with omni-directional antennas can be configured as the main access point connected to a wired network while APs with internal high-gain directional antennas can point back to it. This gives IT managers the ability to leverage the longer range that the APs with internal directional antennas have because of their more focused signal beam. Many of the Electron Series dual-band Access Points can be configured as a standard AP in one frequency (typically the 2.4 GHz band) and as a WDS bridge (typically in the 5 GHz band) at the same time. This is ideal for a campus scenario where client devices connect to a company or school network and its Internet connection on the 2.4 GHz band, while the 5 GHz band serves as a backhaul to push the traffic back to the main AP. This eliminates the need to trench for cabling between the main network and the more remote dual-band APs.ennas.

Leaders in Long Range Wi-Fi

The reputation that EnGenius Electron Series Access Points enjoy is attributable to their high (dBm) transmit power, their strong receive sensitivity and the engineering, tuning and overall design that goes into each of the AP's antenna array. It's that technology expertise when applied that pushes wireless signals farther while at the same time delivering more enhanced receive sensitivity to connect with remote client devices than more expensive enterprise-class devices.

Internal antennas in Electron Series ceiling-mount Access Points can penetrate up to three floors in multiple-story buildings to keep users connected which makes for more cost-effective deployments. EnGenius Electron Series Outdoor Access Points with internal directional antennas in optimal conditions can push wireless signals in excess of two miles. And for those IT managers or users who need to push signals even farther, many Enterprise Network Series Outdoor Access Points and Indoor desktop Access Point/Client Bridges feature detachable antennas that can be replaced with even higher-gain third-party antennas.

Gigabit Speeds for a Variety of Needs

All EnGenius Electron Series IEEE802.11a/b/g/n or 802.11ac Access Points feature Gigabit ports for connectivity to the network to optimize throughput of bandwidth-intensive or sensitive applications like video streaming and video conferencing, telephony, or large file transfers.

Power Source

Electron Series PoE/PoE+ Gigabit Switches give IT managers settings and tools to monitor traffic flow, load and per port connectivity and usage, as well as to manage or quickly adjust the settings or performance of their wired network in real time or reconfigure authorized access to the network on an individual user level.

Multiple SSID-to-VLAN tagging

Each Dual Band EnGenius Electron Series Access Point is capable of providing 8 separate SSIDs per frequency band (16 total) and each SSID can be tagged to an established VLAN on the network.

Durable and Weatherproof Designs

A lot of thought and care goes into the design and durability of EnGenius Electron Access Point housings. Electron Series ceiling mount Access Points feature award-winning housing designs that blend with other infrastructure appliances like smoke detectors or alarms mounted on ceilings. These stealthy, unobtrusive designs actually minimize and eliminate theft of the Access Point in hospitality, school and other deployments. Electron Series Outdoor Access Point housings feature IP55/IP65/IP68 waterproof ratings and routinely brave the elements and whatever Mother Nature throws at them from torrential rain, harsh sleet, freezing weather, snow, dust or intense and prolonged desert heat. Connectors for Ethernet cables on Electron Series Outdoor APs are also shielded from moisture to prevent electrical shortage resulting in reliable high-powered, long-range performance throughout the long-life of the product.

EZ CONTROLLER

EZ Controller (EnGenius Zone Controller) is an Access Point Network Management Software (NMS) that provides a robust suite of tools for IT managers, installers and network administrators who deploy, manage and maintain wireless networks. With EZ Controller, EnGenius Wireless Indoor and Outdoor Access Points and Client Bridges can be configured, controlled and monitored from one central location.

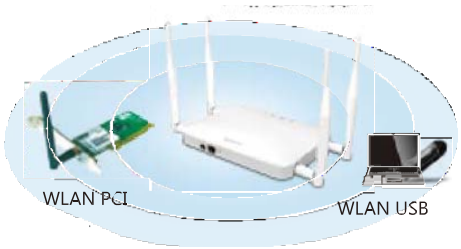
- Check real-time wireless coverage
- Monitor and control each asset
- Monitor traffic load by AP, MAC or IP address
- Sequential firmware upgrades to deployed APs/Bridges
- Import and archive floorplan maps for radio coverage plotting
- Label assets by MAC or IP address or user-defined aliases
- Export real-time AP statistics report
- Easy-to-use User Interface
- Optimize network performance
- Eliminate downtime

ENH series ENS series EAP series ECB series

Multiple Operation Mode

Access Point

The most basic mode of multi-function Access Point in this mode, the AP will act as a central hub for different wireless LAN clients. Some hotspot APs require 802.1x authentication function to authenticate a user before providing Internet service.



Client Bridge

Also known as Ethernet Client. In this mode, AP will act as a WLAN card to connect with remote AP. Users can connect PC or local LAN to the Ethernet port of the client bridge mode AP. This mode is mostly used as a CPE device for WISP subscription service.

Client Router

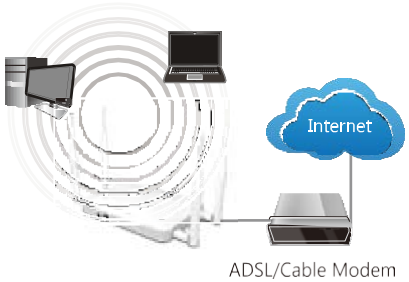
In this mode, the AP will behave as client. In addition, router function is added between the wireless WAN side and the Ethernet LAN side. Therefore, the WISP subscriber can share the WISP connection without the need of extra router.

Universal Repeater

A universal repeater extends the wireless coverage of another wireless AP or router. The advantage of the universal repeater is that the remote device does not need to have WDS function and may not need to be the same brand or manufacturer. Therefore, it can work with almost any wireless device.

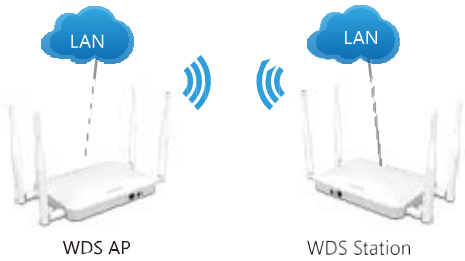
AP Router

The Ethernet port will behave as a WAN port for wired connection to ADSL or Cable modem. The NAT routing will be performed between the WAN and WLAN. Making IP sharing possible.



WDS Station

The connection is similar to the Client Bride, but it uses WDS (Wireless Distribution System) method to connect a WDS Access Point.



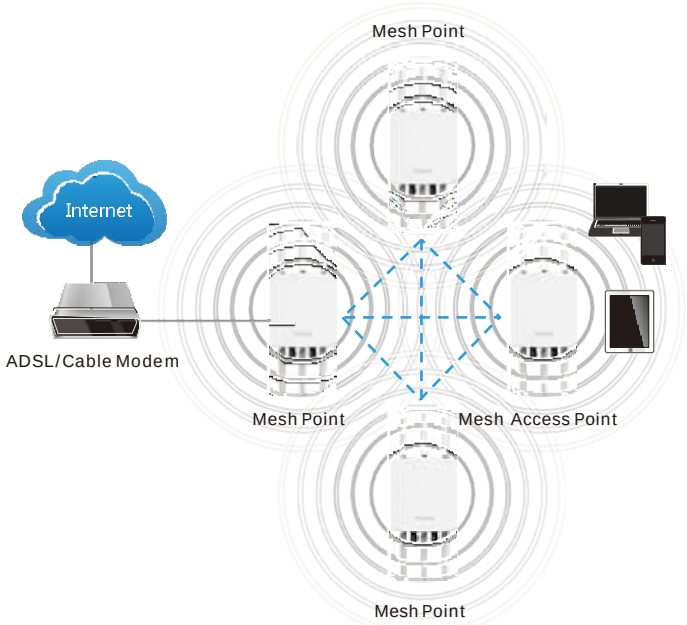
Multiple Operation Mode - continued

Mesh Access Point

Mesh AP mode allows networks to be interconnected without cabling to any wired ports while remains the security and reliability of a wired network. Mesh AP mode could also broadcast to serve clients and to establish wireless mesh links on the same frequency radio.

Mesh Point

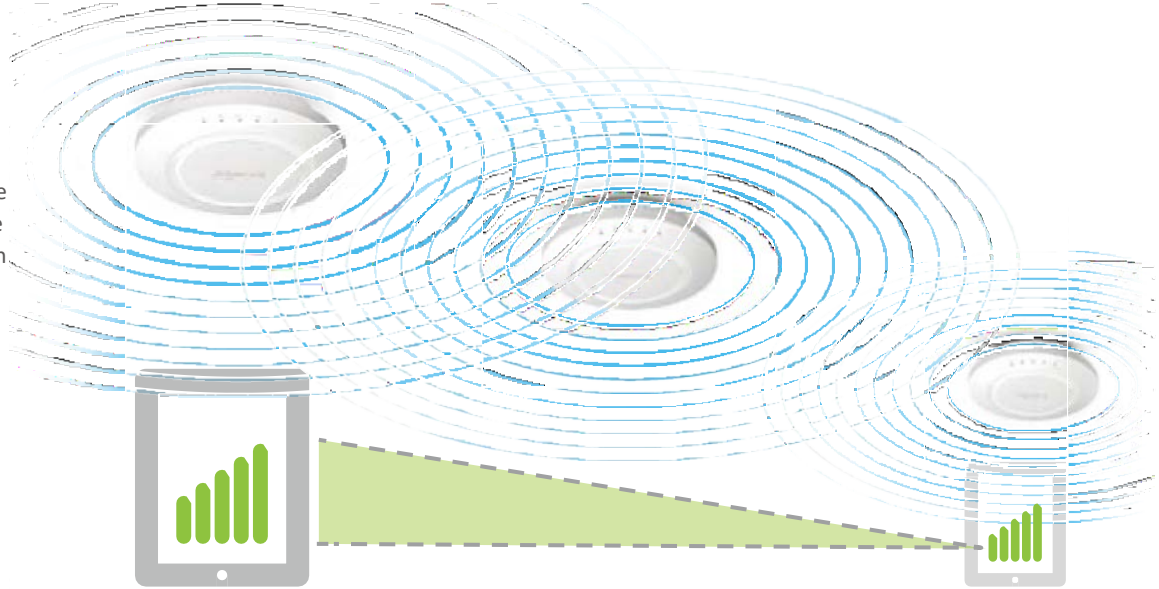
Mesh Point mode allows networks to be interconnected without cabling to any wired ports while remains the security and reliability of a wired network.



Fast Roaming

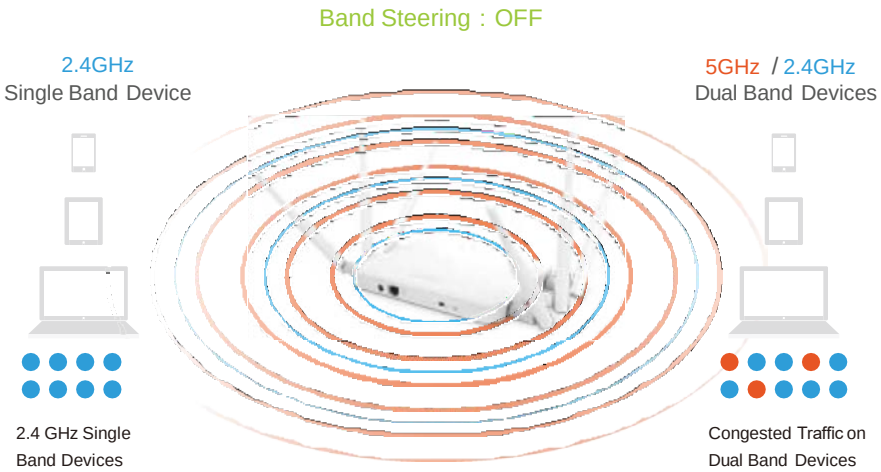
Because Staying Connected Can Be A Moving Experience

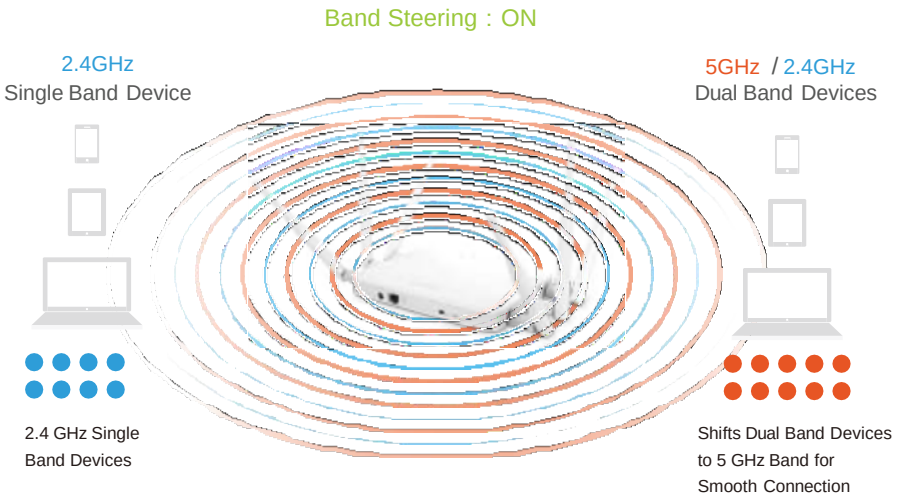
Some Electron Series Access Points also support Roaming for clients authenticated to a RADIUS server. This means that employees can be constantly connected to the network – whether they are warehouse workers scanning and capturing barcode information, employees on Wi-Fi phone calls while walking to meetings on another part of a corporate campus, healthcare professionals capturing patient information on mobile devices, or security personnel who need uninterrupted video surveillance on a mobile device when they are alerted to and making their way to the location of an incident.



Band Steering (Available on Dual Band Products)

For effective spectrum usage, several of Electron Series Access Point includes a Band Steering option which when applied, automatically shifts the connection of Dual-Band clients to the 5GHz band where is less traffic and more available RF channels.



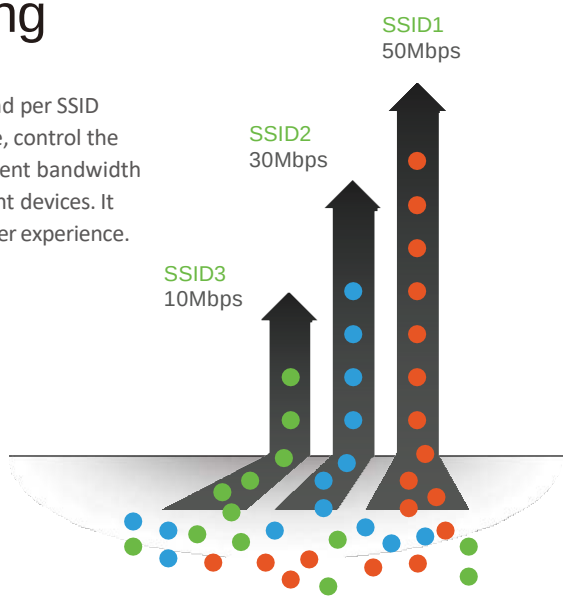


Layer 2 Wireless Client Isolation

Wireless Client Isolation prevents communication between WLAN clients and other local network resources. L2 Wireless Client Isolation function isolates wireless clients to communicate with other clients from all hosts on the same subnet, basically create the virtual network per client.

Traffic Shaping

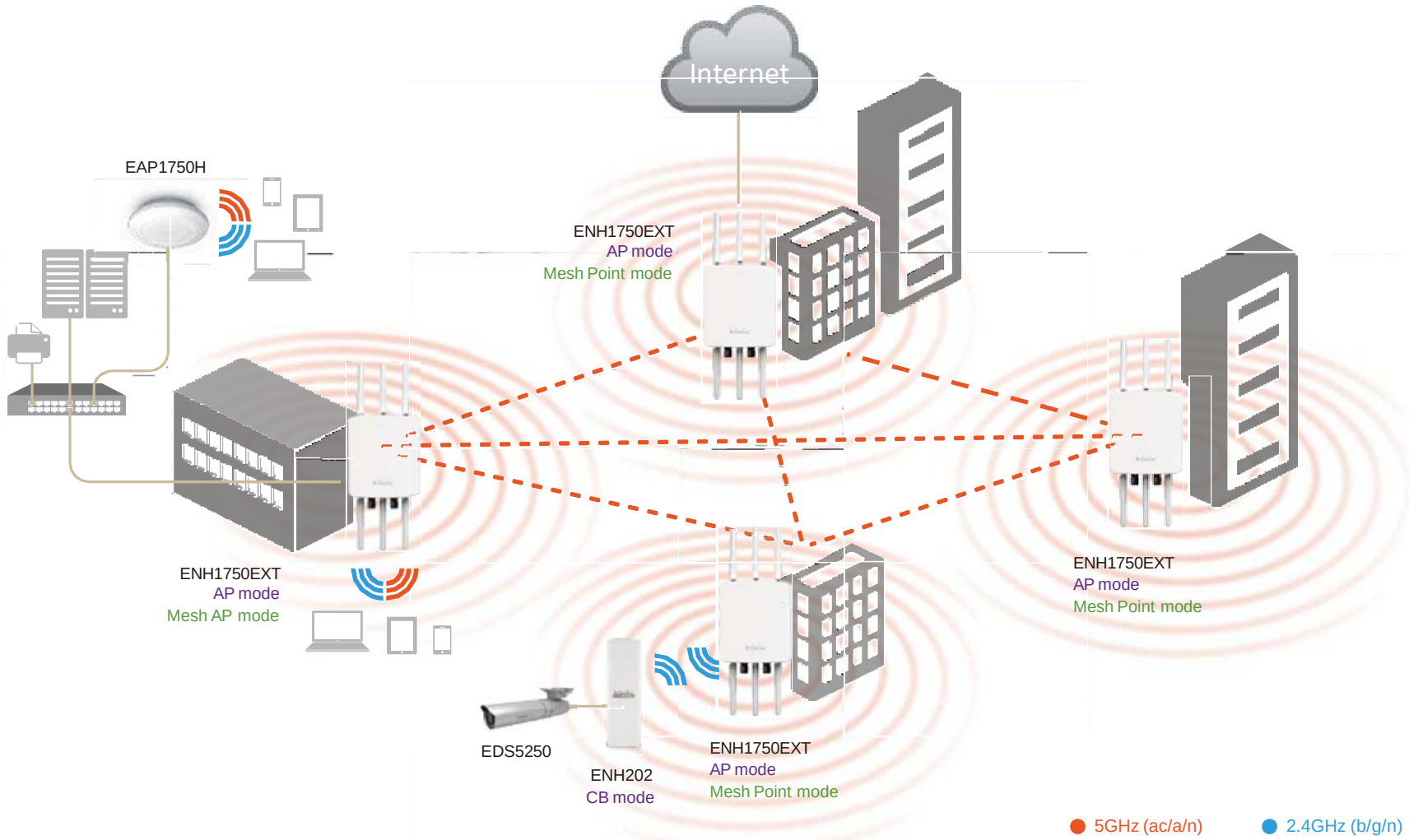
Limiting bandwidth per user and per SSID allows administrator to manage, control the traffic efficiency. As well as prevent bandwidth are occupied by the slower client devices. It brings better wireless client user experience.



Outdoor AP&CPE

EnGenius provides a full line of powerful, business-class Ethernet switching solutions for all your network needs. Affordable platforms with flexible product options make it easy to find a quality Ethernet switching solution to meet your specific requirements for IP business communications.

Mesh Network



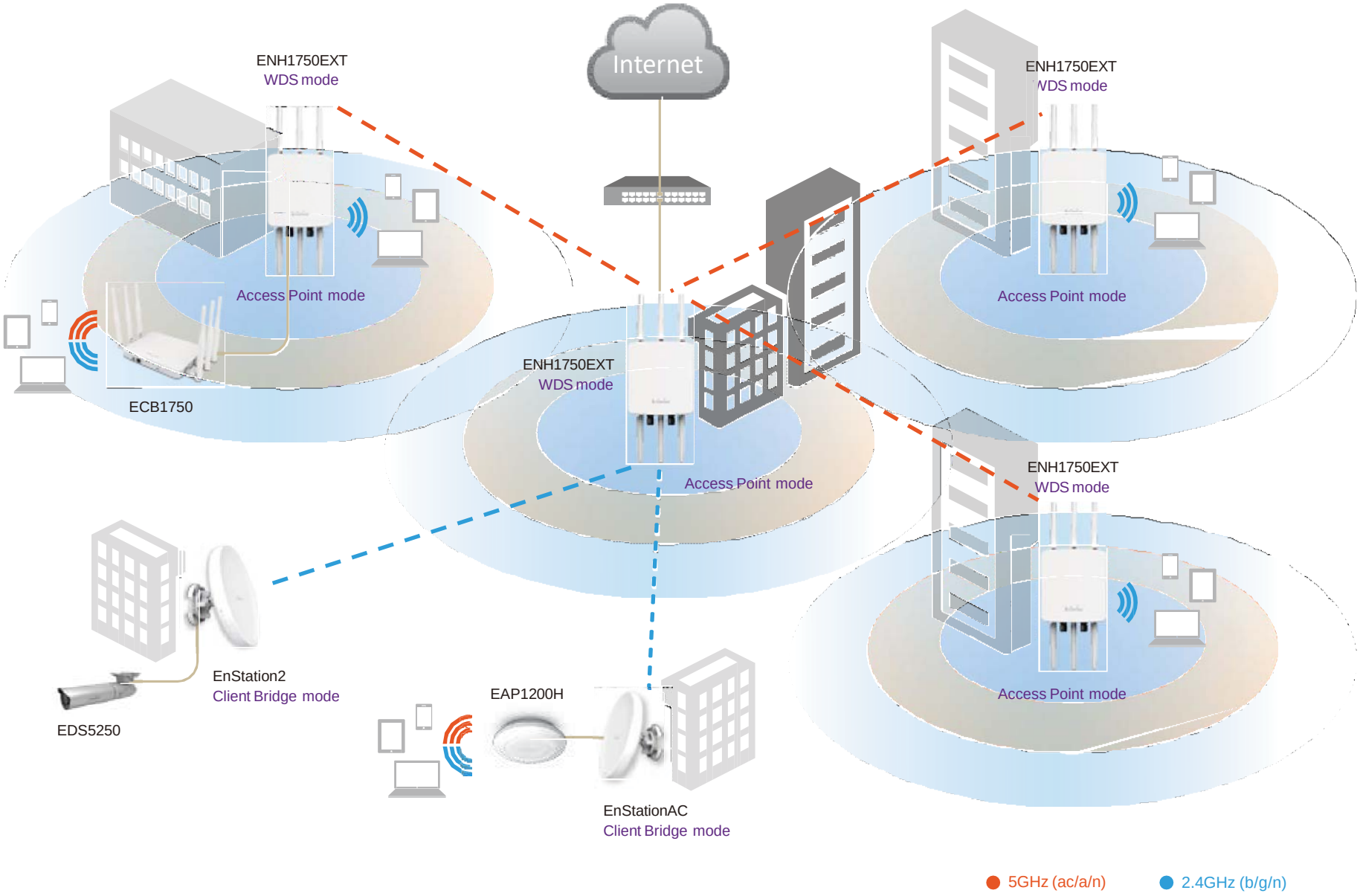
Supported Model

ENH1750EXT

Wireless N450Mbps+AC1300Mbps Outdoor Dual Concurrent AP

> find more on page 30

Multi-Hop Repeater



Outdoor Dual Concurrent AP

ENH1750EXT Wireless N450Mbps+AC1300Mbps Outdoor Dual Concurrent AP

ac a b g n

- 450Mbps (2.4GHz) + 1300Mbps (5GHz)
- Max.Tx Power: 29dBm(2.4GHz/5GHz)
- Antenna (N-type)
  (WLAN_11ac/n) 3x Detachable 7dBi Antennas
  (WLAN_11b/g/n) 3x Detachable 5dBi Antennas
- 2x Gigabit LAN Port
- Proprietary 48V-54V, 802.3at PoE
- IP68 Waterproof Design
- MSSID, WMM, Full Encryption Supported
- Operation Mode: AP/Mesh/WDS

Common Key Features

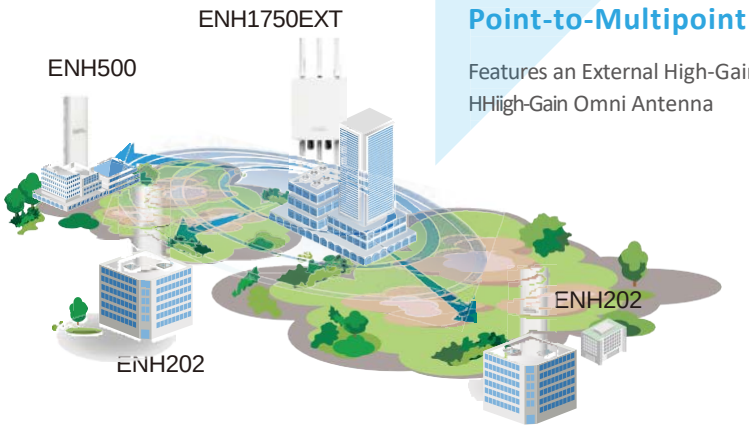
- Dual Concurrent 3T3R Architecture
- Proprietary 48V or 802.3at Compliant PoE
- 802.3af PSE out
- Remote Reset from PoE Injector
- IP68 Waterproof Design
- Gigabit Ethernet Port Equipped
- Durable N-Type Detachable Antennas
- Mutiple SSIDs (16 SSIDs in total)
- Full Encryption Supported (WEP, WPA-PSK, WPA2-PSK, WPA-PSK Mixed, WPA-Enter prise, WPA2-Enterprise, WPA-Mixed Enterprise)
- Wireless MAC Filter
- 802.1q VLAN
- SSID to VLAN Mapping
- Wi-Fi Scheduler
- QoS: Compliant with IEEE802.11e Standard
- SNMP v1/v2c/v3

reddot award 2014 winner

TAIWAN EXCELLENCE 2014

Multiple Operation Scenario

EnGenius Outdoor APs provide optimal connectivity and great network coverage with high output power and high sensitivity antenna design.



Point-to-Multipoint

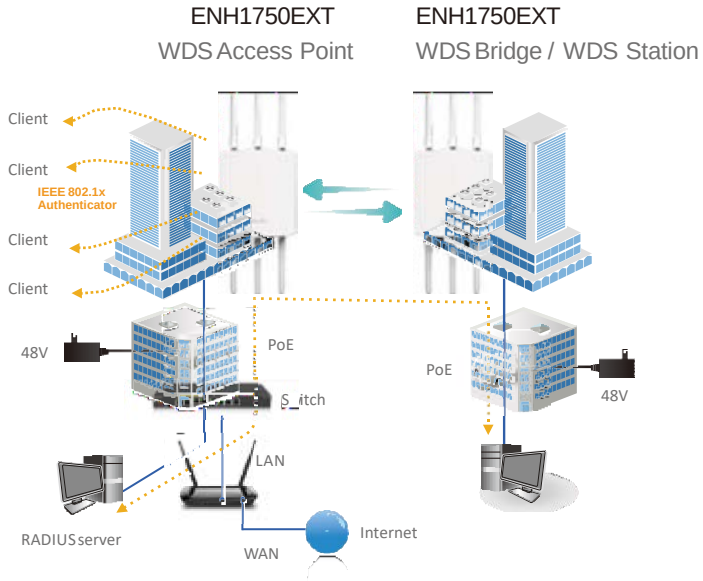
Features an External High-Gain, HHiigh-Gain Omni Antenna

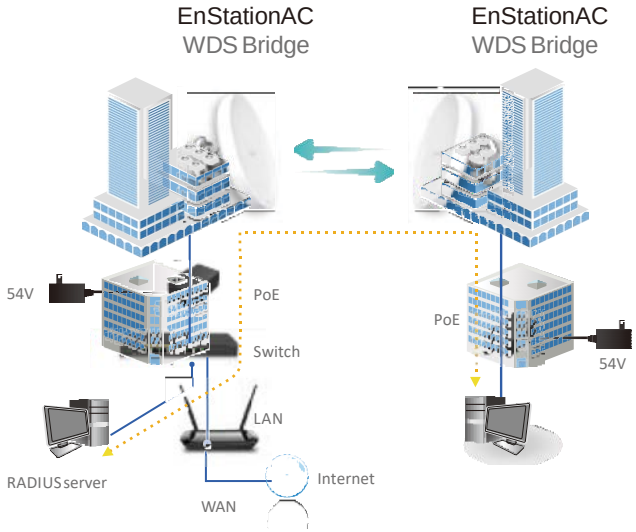
Point-to-Point

Features an Internal High Gain, DDuual-Polarity Directional Antenna

Wireless Distribution System (WDS)

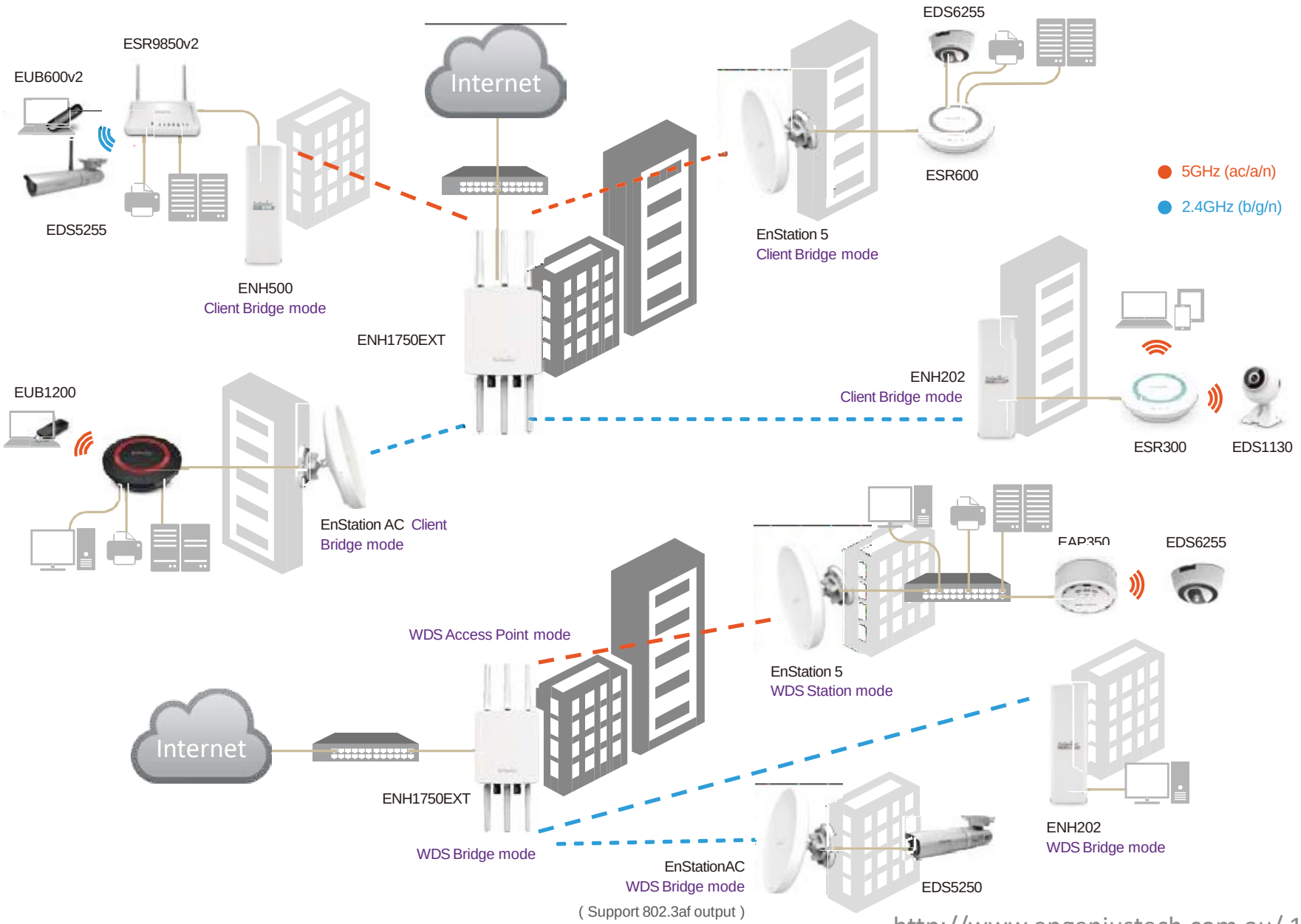
The wireless distribution system (WDS) is a system establishing the wireless interconnection of access points under IEEE 802.11 network. It allows a wireless network to be extended using multiple access points without the traditional handshake for a wired backbone to connect access points. The remarkable advantage of WDS comparing to other solutions is that it preserves the MAC addresses of client frames across links between access points.





Outdoor CPE Application Overview

EnGenius ENH Outdoor CPE line is optimized for understandable complexity to bring enhanced security and better effectiveness for business operation. It's simple than ever to build a shared network interface with affordale investment and the best-in-class performance.



Outdoor AP&CPE

ⓐ ⓝ

ENH500 Wireless-N 300Mbps 5GHz Outdoor CB/AP

- 300Mbps (5GHz)
- Max. Tx Power: 27dBm
- Internal 13dBi 5GHz Panel Antenna (Dual Polarization)
- 2x 10/100 LAN Ports
- Proprietary 24V PoE
- IP65 Waterproof Design
- Operation Mode: CB/AP/WDS/CR

ⓑ ⓖ ⓝ

ENH202 Wireless-N 300Mbps 2.4GHz Outdoor CB/AP

- 300Mbps (2.4GHz)
- Max. Tx Power: 28dBm
- Internal 10dBi 2.4GHz Panel Antenna (Dual Polarization)
- 2x 10/100 LAN Ports
- Proprietary 24V PoE
- IP65 Waterproof Design
- Operation Mode: CB/AP/WDS/CR

Common Key Features

- 2T2R Architecture
- IP65 Waterproof Design
- Fast Ethernet Ports Equipped
- Integrated High-Gain Directional Antenna
- 802.1q VLAN
- SSID to VLAN Mapping
- Full Encryption Supported (WEP, WPA-PSK, WPA2-PSK, WPA-PSK Mixed, WPA-Enterprise, WPA2-Enterprise, WPA-Mixed Enterprise) Wireless MAC Filter
- Wi-Fi Scheduler
- QoS: Compliant with IEEE802.11e Standard
- SNMP v1/v2c/v3
- Client Statistics
- CLI Command
- Multilingual User Interface (English/Spanish/French/German/Portuguese/Russian/Simplified Chinese)

Outdoor CPE

EnStationAC

Wireless-AC 867Mbps 5GHz Outdoor CPE

- 867Mbps (5GHz)
- Max. Tx Power: 26dBm
- Internal 19dBi 5GHz Panel Antenna
- 2 x 10/100/1000 LAN Ports
- Proprietary 54V, 802.3at PoE
- IP55 Waterproof Design
- Operation Mode: CB/AP/WDS

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TAIWAN EXCELLENCE 2016

Key Features

- 2T2R Architecture
- Proprietary 54V or 802.3at Compliant PoE
- 802.3af PSE out
- Gigabit Ethernet Ports Equipped
- Integrated High-Gain Directional Antenna
- Full Encryption (WEP, WPA-PSK, WPA2-PSK, WPA-PSK Mixed, WPA-Enterprise, WPA2-Enterprise, WPA-Mixed Enterprise)
- Wireless MAC Filter
- 802.1q VLAN
- SSID to VLAN Mapping
- Wi-Fi Scheduler
- QoS: Compliant with IEEE802.11e Standard
- SNMP v1/v2c/v3
- Client Statistics
- CLI Command
- Multilingual Language User Interface (English/Spanish/French/German/Portuguese/Russian/Simplified Chinese)

Outdoor CPE

EnStation5 Wireless-N 300Mbps 5GHz Outdoor CPE

- 300Mbps (5GHz)
- Max. Tx Power: 26dBm
- Internal 19dBi 5GHz Panel Antenna
- 2x 10/100 LAN Ports
- Proprietary 24V PoE
- IP55 Waterproof Design
- Operation Modes: CB/AP/WDS/CR

EnStation2 Wireless-N 300Mbps 2.4GHz Outdoor CPE

- 300Mbps (2.4GHz)
- Max. Tx Power: 26dBm
- Internal 13dBi 2.4GHz Panel Antenna
- 2x 10/100 LAN Ports
- Proprietary 24V PoE
- IP55 Waterproof Design
- Operation Modes: CB/AP/WDS/CR

Common Key Features

- 2T2R Architecture
- Proprietary 24V PoE
- Fast Ethernet Ports Equipped
- Integrated High-Gain Directional Antenna
- Full Encryption (WEP, WPA-PSK, PA2-PSK, WPA-PSK Mixed, WPA-Enterprise, WPA2-Enterprise, WPA-Mixed Enterprise)
- Wireless MAC Filter
- 802.1q VLAN
- SSID to VLAN Mapping
- Wi-Fi Scheduler
- QoS: Compliant with IEEE802.11e Standard
- SNMP v1/v2c/v3
- Client Statistics
- CLI Command
- Multilingual User Interface (English/Spanish/French/German/Portuguese/Russian/Simplified Chinese)
- Narrow Bandwidth Supported (5MHz /10MHz)

Outdoor Mini CPE

ac a b g n

ENS1750 Wireless N450Mbps+AC1300Mbps Outdoor Dual Concurrent AP

- 450Mbps (2.4GHz) + 1,300Mbps (5GHz)
- Max.Tx Power: 29dBm (2.4GHz), 28dBm (5GHz)
- Antenna: Internal 5dBi Dual Concurrent Omni Antenna (Dual Polarization)
- 2x Gigabit LAN Ports
- Proprietary 54V, 802.3at PoE
- IP55 Waterproof Design
- MSSID, WMM, Full Encryption Supported
- Operation Mode: AP/WDS

ac a b g n

ENS1200 Wireless N300Mbps+AC867Mbps Outdoor Dual Concurrent AP

- 300Mbps (2.4GHz) + 867Mbps (5GHz)
- Max.Tx Power: 27dBm (2.4GHz), 26dBm (5GHz)
- Antenna: Internal 5dBi Dual Concurrent Omni Antenna (Dual Polarization)
- 2x Gigabit LAN Ports
- Proprietary 54V, 802.3at PoE
- IP55 Waterproof Design
- MSSID, WMM, Full Encryption Supported
- Operation Mode: AP/WDS

Common Key Features

- Dual Concurrent 2T2R Architecture
- Proprietary 54V or 802.3at Compliant PoE
- Gigabit Ethernet Ports Equipped
- Multiple SSIDs (16 SSIDs in total)
- Full Encryption Supported (WEP, WPA-PSK, WPA2-PSK, WPA-PSK Mixed, WPA-Enterprise, WPA2-Enterprise, WPA-Mixed Enterprise)
- Wireless MAC Filter
- 802.1q VLAN
- SSID to VLAN Mapping
- Wi-Fi Scheduler
- QoS: Compliant with IEEE802.11e Standard
- SNMP v1/v2c/v3
- Client Statistics
- Guest Network
- Band Steering
- RSSI Threshold
- Fast Handover
- E-Mail Alert
- Save Configuration as Users Default
- CLI Command / https / SSH
- IPv6/IPv4
- Wireless Traffic Shaping
- Ping Test/Traceroute Test/Speed Test
- Multilingual Language User Interface (English/Spanish/French/German/Portuguese/Russian/Simplified Chines

Outdoor Mini CPE

NEW

ENS620EXT

ac a b g n

Wireless N400Mbps+AC867Mbps Outdoor Dual Concurrent AP

- 400Mbps (2.4GHz) + 867Mbps (5GHz)
- Max.Tx Power:
  27dBm (2.4GHz/5GHz)
- Antenna (SMA-type) :
  (WLAN_11ac/n) 2x Detachable 5dBi Antennas
  (WLAN_11b/g/n) 2x Detachable 5dBi Antennas
- 2x Gigabit LAN Ports
- Proprietary 24V
- IP55 Waterproof Design
- MSSID, WMM, Full Encryption Supported
- Operation Mode: AP/CB/WDS

WAVE 2
802.11ac

Key Features

- Dual Concurrent 2T2R Architecture
- Proprietary 24V Compliant PoE
- Gigabit Ethernet Port Equipped
- Durable N-Type Detachable Antennas
- Multiple SSIDs (16 SSIDs in total)
- Full Encryption Supported (WEP, WPA-PSK, WPA2-PSK, WPA-PSK Mixed, WPA-Enterprise, WPA2-Enterprise, WPA-Mixed Enterprise)
- Support Very High Throughput (VHT40) on 2.4GHz Frequency Band (256-QAM)
- Support Beamforming
- Support MU-MIMO
- Wireless MAC Filter
- 802.1q VLAN
- SSID to VLAN Mapping
- VLAN Pass-through
- QoS: Compliant with IEEE802.11e Standard
- SNMP v1/v2c/v3
- Client Statistics
- Guest Network
- Band Steering
- Fast Roaming
- RSSI Threshold
- E-Mail Alert
- CLI Command / https / SSH
- IPv6/Pv4
- Wireless Traffic Shaping Per User / SSID
- Ping Test/Traceroute Test/Speed Test
- Multi-language User Interface (English, Spanish/French/German/Portuguese/Russian/Simplified Chinese)

Outdoor Mini CPE

ENS500EXT ⓐ ⓝ

5GHz, Long Range Wireless N300 Outdoor AP/CB

- 300Mbps (5GHz)
- Max. Tx Power: 26dBm
- 2x 5dBi Detachable 5GHz Omni Antennas (SMA)
- 2x 10/100 LAN Ports
- Proprietary 24V PoE
- IP65 Waterproof Design
- Operation Mode: AP/CB/WDS/CR/Repeater

ENS202EXT ⓑ ⓖ ⓝ

2.4GHz, Long Range Wireless N300 Outdoor AP/CB

- 300Mbps (2.4GHz)
- Max. Tx Power: 26dBm
- 2x 5dBi Detachable 2.4GHz Omni Antennas (SMA)
- 2x 10/100 LAN Ports
- Proprietary 24V PoE
- IP65 Waterproof Design
- Operation Mode: AP/CB/WDS/CR/Repeater

ENS500 ⓐ ⓝ

5GHz, Long Range Wireless N300 Outdoor AP/CB

- 300Mbps (5GHz)
- Max. Tx Power: 26dBm
- Internal 10dBi 5GHz Panel Antenna (Dual Polarization)
- 2x 10/100 LAN Ports
- Proprietary 24V PoE
- IP65 Waterproof Design
- Operation Mode: AP/CB/WDS/CR

ENS202 ⓑ ⓖ ⓝ

2.4GHz, Long Range Wireless N300 Outdoor AP/CB

- 300Mbps (2.4GHz)
- Max. Tx Power: 26dBm
- Internal 8dBi 2.4GHz Panel Antenna (Dual Polarization)
- 2x 10/100 LAN Ports
- Proprietary 24V PoE
- IP65 Waterproof Design
- Operation Mode: AP/CB/WDS/CR

Common Key Features

- 2T2R Architecture
- Proprietary 24V PoE
- Fast Ethernet Port Equipped
- Full Encryption Supported (WEP, WPA-PSK, WPA2-PSK, WPA-PSK Mixed, WPA-Enterprise, WPA2-Enterprise, WPA-Mixed Enterprise)
- Wireless MAC Filter
- 802.1q VLAN
- SSID to VLAN Mapping
- Wi-Fi Scheduler
- QoS: Compliant with IEEE802.11e Standard
- SNMP v1/v2c/v3
- Client Statistics
- CLI Command
- IPv6/IPv4
- Ping Test/Traceroute Test/Speed Test
- Multilingual User Interface (English/Spanish/French/German/Portuguese/Russian/Simplified Chinese)

Accessories

PoE Adapter

Gigabit

Cooming Soon

EPA5012GP

Input 100V to 240V AC/50-60Hz
Proprietary 54V/1.11A power supply
10/100/1000 PoE Solution

Gigabit

EPA5006GAT

Input 100V to 240V AC/50-60Hz
802.3af/at power supply
10/100/1000 PoE Solution

Gigabit

EPA5006GP

Input 100V to 240V AC/50-60Hz
Proprietary 54V/0.6A power supply
10/100/1000 PoE Solution

Gigabit

NEW

EPA2410GP

Input 100V to 240V AC/50-60Hz
Proprietary 24V/1A power supply
10/100/1000 PoE Solution

PoE Adapter

10/100

NEW

EPA2406FP

Input 100V to 240V AC/50-60Hz
Proprietary 24V/0.6A power supply
10/100 PoE Solution

Surge Arrestor

Gigabit

ESA-7600G

6KV
Superior Surge and
lightning protection

10/100

ESA-7500

2KV
Superior surge and
lightning protection

PoE Converter

Gigabit

EPD-4824

Convert 48V or 802.3at/af
Input to 24V Output

Accessories

Sector Antenna

SA-5315

- Frequency: 4.9~6GHz
- Antenna Gain: 15dBi
- Polarization Dual Polarization
- Vertical Beamwidth: 9°
- Horizontal Beamwidth: 120° (6dB)
- VSWR 2:1 MAX
- Isolation: 25dB
- Antenna Port / Type:
  3 / N Type Plug (Female)

SA-2312

- Frequency: 2.3~2.7GHz
- Antenna Gain: 12dBi
- Polarization Dual Polarization
- Vertical Beamwidth: 9°
- Horizontal Beamwidth: 120° (6dB)
- VSWR 2:1 MAX
- Isolation: 25dB
- Antenna Port / Type:
  3 / N Type Plug (Female)

SA-5219

- Frequency: 4.9~6GHz
- Antenna Gain: 19dBi
- Polarization Dual Polarization
- Vertical Beamwidth: 9°
- Horizontal Beamwidth: 120° (6dB)
- VSWR 2:1 MAX
- Isolation: 25dB
- Antenna Port / Type:
  2 / N Type Plug (Female)

SA-2216

- Frequency: 2.3~2.7GHz
- Antenna Gain: 16dBi
- Polarization Dual Polarization
- Vertical Beamwidth: 9°
- Horizontal Beamwidth: 120° (6dB)
- VSWR 2:1 MAX
- Isolation: 25dB
- Antenna Port / Type:
  2 / N Type Plug (Female)

Indoor AP&CB

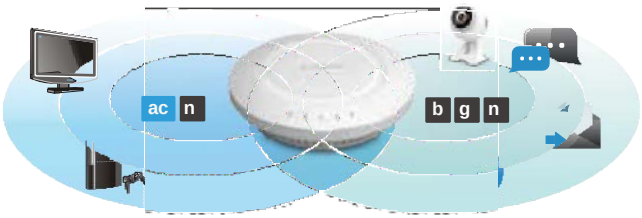
No need to be a tech guru to install and deploy a wireless network. EnGenius Indoor AP/CB which consist of ceiling-mount EAP Line, and desktop/ wall-mount access points/client bridges ECB Line make it easy and affordable for the non-tech people to install.

AC Solution

IEEE802.11ac is an evolutionary improvement to the antecedent 802.11n which delivers higher levels of performance that are commensurate with Gigabit Ethernet networking.

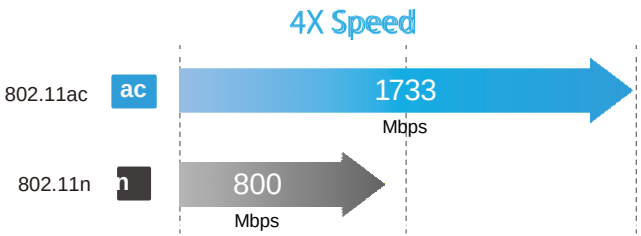
IEEE802.11ac is the ideal solution to create peak efficiency to the network with enterprise-class speeds and latencies and to benefit the high-density BYOD environments with scores of clients per AP.

Be ready to take the advantage of the state-of-the-art AC connectivity, experience the instantaneous data transfer and high-density content streaming that delivering straightforward high quality of experience.

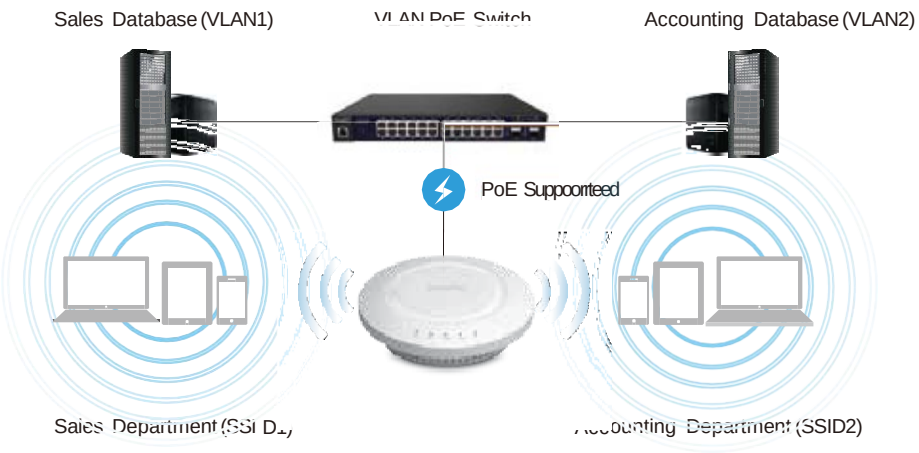


5GHz
1733/1300/867Mbps

2.4GHz
800/450/300Mbps



Application for MSSID+VLAN



High Power & Ultra Long Range Design

Enhanced Security and Manageability

Security

- WPA/WPA2/WEP Encryption Supported
- 802.1x Authentication Supported
- Hidden BSSID
- L2 Isolation
- MAC Address Filter (up to 32)
- Multi-SSID + VLAN Supported

Management

- SNMP
- Backup/Restore Setting
- Remote Firmware upgrade
- EZ Controller (Free download Network Management Software)

11AC Ceiling Mount Dual Concurrent Indoor AP

AP1750H

b g

Wireless N450Mbps+AC1300Mbps
Ceiling Mount Dual Concurrent AP

- 450Mbps (2.4GHz) + 1300Mbps (5GHz)
- Max. Tx Power: 28dBm (2.4GHz), 28dBm (5GHz)
- Dual Band 5dBi Internal Omni Antenna
- 1x Gigabit LAN Port
- Proprietary 48V~54V, 802.3at PoE (DC 12V/2A supported)

EAP1200H

ac a b g n

Wireless N300Mbps+AC867Mbps
Ceiling Mount Dual Concurrent AP

- 300Mbps (2.4GHz) + 867Mbps (5GHz)
- Max. Tx Power: 26dBm (2.4GHz), 26dBm (5GHz)
- Dual Band 5dBi Internal Omni Antenna
- 1x Gigabit LAN Port
- Proprietary 48V~54V, 802.3at PoE (DC 12V/2A supported)

Common Key Features

- 802.1q VLAN
- QoS
- IPv6/IPv4
- Spanning Tree Protocol (STP)
- Guest Network
- Band Steering
- SSID to VLAN Mapping
- RSSI Threshold
- Fast Roaming
- SNMP v1/v2c/v3
- CLI/SSH/Https
- Email Alert
- Auto Reboot Scheduling
- Wi-Fi Scheduler
- Ping Test/Traceroute Test/Speed Test
- Wireless Traffic Shaping
- Wireless MAC Filter
- Full Encryption Supported (WEP, WPA-PSK, WPA2-PSK, WPA-PSK Mixed, WPA-Enterprise, WPA2-Enterprise, WPA-Mixed Enterprise)
- Operation Mode: AP/WDS
- Multiple SSIDs (16 SSIDs in total)
- Multilingual User Interface (English/Spanish/ French/ German/Portuguese/Russian/Simplified Chinese)

11AC Desktop/Wall-Mount Dual Concurrent Indoor AP/CB

ECB1750

ac a b g n

Wireless N450Mbps+AC1300Mbps Multi-Function Dual Concurrent AP/CB

- 450Mbps (2.4GHz) + 1300Mbps (5GHz)
- Max. Tx Power: 28dBm (2.4GHz/5GHz)
- 6x 5dBi Detachable Omni antennas
- 1x Gigabit LAN Port
- Proprietary 48V~54V, 802.3at PoE (DC 12V/2A supported)

ECB1200

ac a b g n

Wireless N300Mbps+AC867Mbps Multi-Function Dual Concurrent AP/CB

- 300Mbps(2.4GHz) +867Mbps(Mbps) v

Max TX Power: 26dBm (2.4GHz/5GHz)

- 4x 5dBi Detachable Omni Antennas
- 1x Gigabit LAN Port
- Proprietary 48V~54V, 802.3at PoE (DC 12V/2A supported)

Common Key Features

- 802.1q VLAN
- QoS
- IPv6/IPv4
- Spanning Tree Protocol (STP)
- Band Steering
- Fast Roaming
- SSID to VLAN Mapping
- SNMP v1/v2c/v3
- CLI
- RADIUS Accounting
- Auto Reboot Scheduling
- Wi-Fi Scheduler
- WEP, WPA-PSK, WPA2-PSK, WPA-PSK Mixed, WPA-Enterprise, WPA2-Enterprise, WPA-Mixed Enterprise
- Operation Mode: AP/CB/WDS
- Multiple SSIDs (16 SSIDs in total)
- Multilingual User Interface (English/Spanish/French/German/ Portuguese/Russian/Simplified Chinese)

Networked Surveillance Solution

EnGenius provides a range of networked and Wi-Fi enabled cameras, ensuring there is one suitable for every application and budget.

Networked surveillance cameras are a great way to provide security for your workplaces and homes. As well as providing you with video footage of any events which may happen. All of EnGenius networked cameras can be accessed remotely from the mobile app, allowing user to monitor staff at work or check in on your home wherever you are.

EnGenius Network Camera Key Features

Intelligent Tampering Alarm

Anti-tamper feature makes these cameras suitable for tamper-prone locations. The tamper detection system can sense whenever the camera has been redirected, defocused, blocked or spray-painted, and respond promptly with a warning notice.

Smart IR

Smart IR function automatically adjusts IR lighting intensity and ensures that the camera captures usable video in dark conditions, even when the object of interest is located close to the IR LEDs

3D Noise Reduction

Deliver sharper, more accurate images, making it easier to identify suspects, resulting in greater disk space savings – so you can store much more video evidence on your hard drive.

Wide Dynamic Range (WDR)

Wide dynamic range is a feature built in some EnGenius network cameras that incorporates techniques for handling a wide range of lighting conditions in a scene.

In a scene with extremely bright and dark areas or in backlight situations where a person is in front of a bright window, a typical camera would produce an image where objects in the dark areas would hardly be visible. Wide dynamic range provides the solution by applying techniques such as using different exposures for different objects in a scene to enable objects in both bright and dark areas to be visible.

EnViewer App

EnViewer app enables user to access multiple groups of videos on their network using iPhone® ,iPad® and AndroidTM devices from anywhere at any time they have Internet connection. The video alert message triggered by motion detection will be sent to designated smart devices for user to check the playback or live view real time movement.

EnViewer™

EnViewer

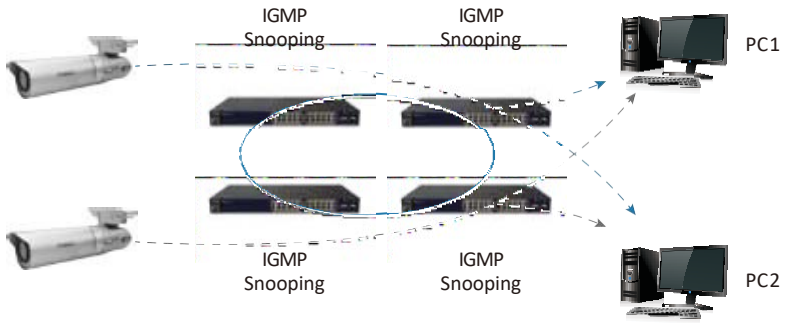
Download on the App Store

GET IT ON Google Play

EnGenius Networked Surveillance Application

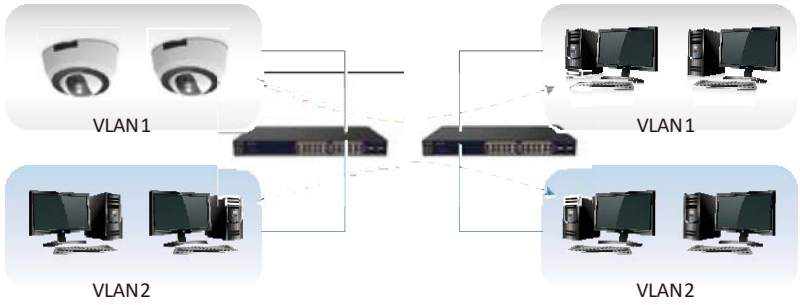
Optimized for Video Multicast

Video streams sent from one source to many users should always be fed efficiently and to where on demand. EnGenius switches optimize video multicast transmission by comprehensive Layer 2 multicast management features, greatly enhancing the bandwidth utilization and video quality.



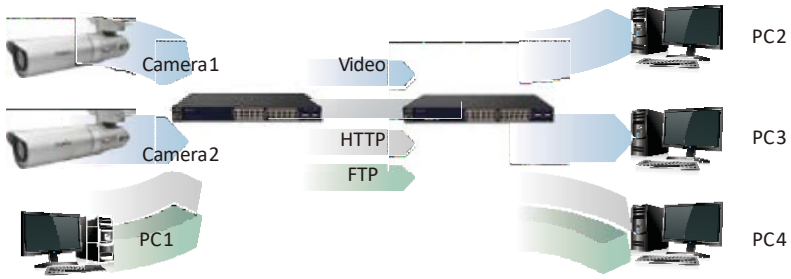
Video Traffic Isolation

EnGenius Switch series supports VLAN (Virtual Local Area Network) which virtually segments the network into specific groups. Video streams are isolated to deliver a clear transmission, while securing the video stream from any malicious .



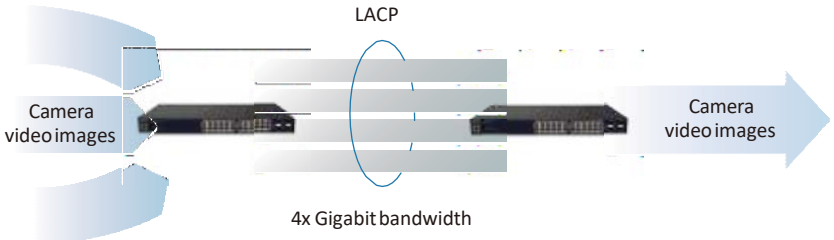
Prioritized Video Transmission

EnGenius Switches support QoS (Quality of Service) to prioritize packets transmitting on network. As illustrated in the diagram, video packets from IP cameras are sent first in priority, and then the HTTP and FTP are sent from PC. Precedence transmission ensures real-time video surveillance while preventing loss of images.



Multiple Bandwidth Aggregation

Megapixel images require greater network bandwidth. In terms of video transmission speed, EnGenius Switches support link aggregation technology to maximize link bandwidth. Hundreds of megapixel video streams can be transmitted via the aggregated link.

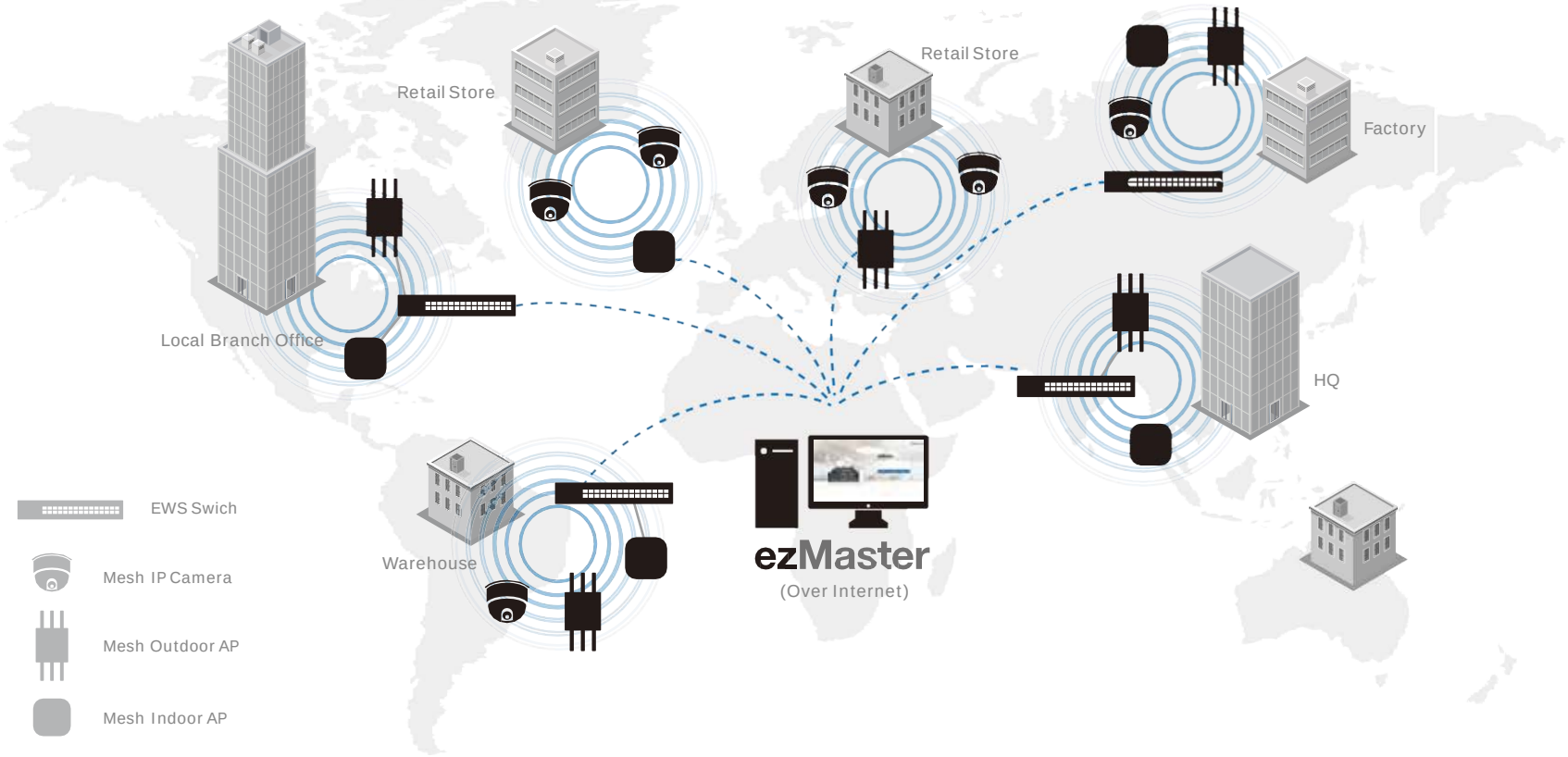


Learn more about EnGenius Switch products, check the Neutron Series (P.4) and the Electron Series (P.14)

Wireless Mesh AP Surveillance Solution

EnGenius wireless 2.4GHz &5GHz dual band Access Point with IP camera can solve significant security challenges at voice and data applications.

EnGenius Indoor Mesh Access Point Camera is a new concept of dual band concurrent, high power, high sensitivity and strong reliability for enterprise solutions. Easy setup and installation for combination of two products – Access point and IP camera, one PoE or DC power solve the power input, and single UI interface for all configurations. To integrate the hotspot service and surveillance, EWS1025CAM not only wireless mesh access point extends wireless access over large, metro scale areas, eliminates costly Ethernet cabling to every Wi-Fi access point, but also provides high resolution video streaming for security. It can be easily deployed and maintained with no configuration deployment and recovery capacity. Extended signal range from high-gain antenna arrays reduce the number of mesh nodes typically required. The EWS1025CAM is a component of the EWS Neutron Series Switches, delivering a robust wireless network with maximum capacity and uptime, the wireless mesh can be seamlessly deployed as an extension of wired and wireless networks, with central management through controllers. No IT experts required for installation, system automatically determines the optimal network topology and maintains the best connections between mesh nodes. The centralize functions of the wireless LAN to provide scalable management, advanced security, seamless mobility, and proven reliability.



2- Megapixel Managed Wireless AP Camera

Wi-Fi

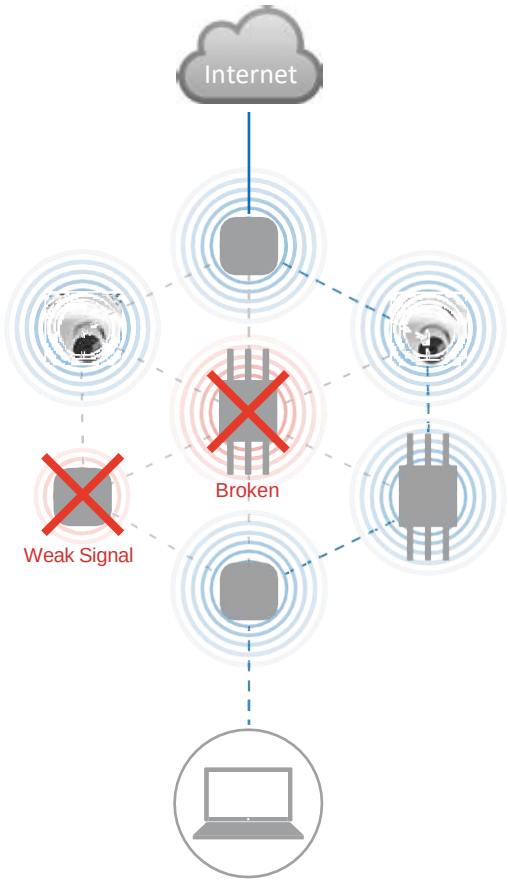
EWS1025CAM

2-Megapixel Managed Wireless AP Network Camera

- Built-in 802.11ac/a/b/g/n Wireless
- Advanced AP Mode with Mesh Support
- Dual Concurrent 2.4GHz and 5GHz Architecture with Max Transfer Rates of Up to 3 00+867 Mbps
- Integrated WLAN Management Solution with EWS Neutron Series Switches
- Gigabit Ethernet Port with IEEE802.3af Standard PoE Support
- Secure Guest Network Option Available
- Built-in Internal High Performance Antennas for Low Profile Design
- Full HD Sony CMOS Image Sensor Delivers 30fps in 1080P Resolution
- Provide True Day/Night Functionality with 20 Meter IR LEDs and IR Cut Flter
- H.264 high Compression Video with VLAN and Prioritizing QoS for Delivering Easily
- Diagonal 120° Wide Angle Lens with F2.0
- EnGenius DDNS, P2P and Push Notification
- Free iOS & Android APP for View / Record
- Free Bundle Video Management Software
- ONVIF Compatible (Profile S)

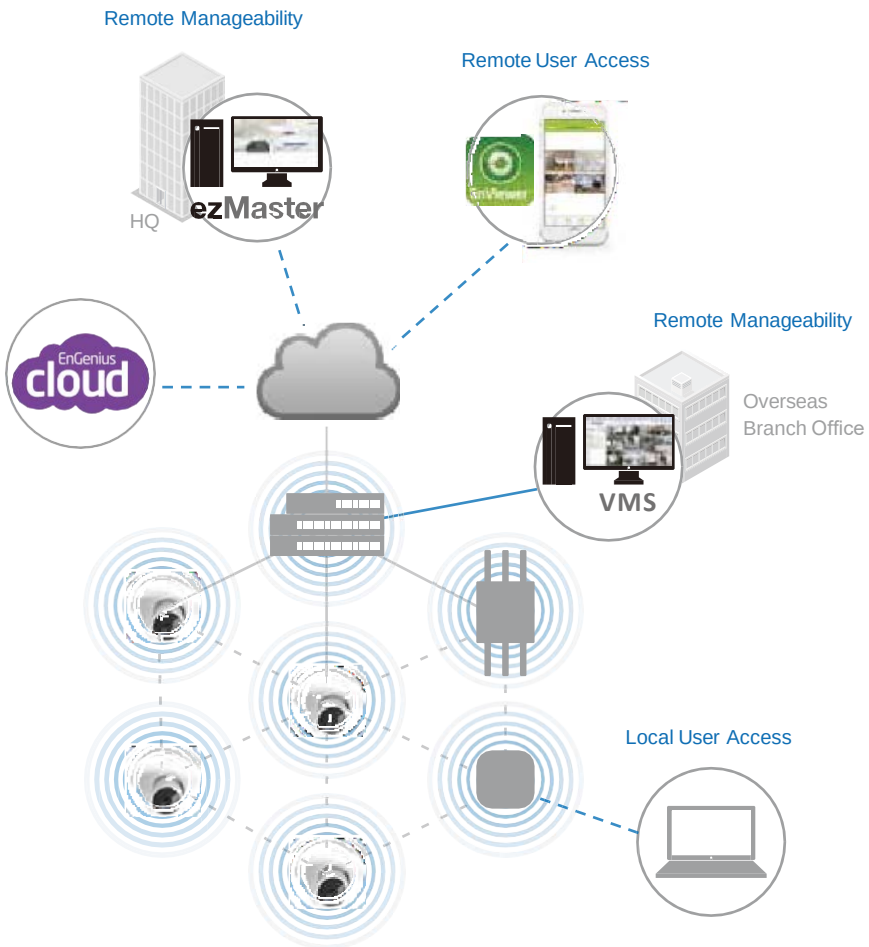
EnGenius wireless Mesh topology

Simple to deploy and create a mesh network by the EWS controller or EzMaster in minutes. Once plugged into any power source, the EnGenius mesh devices automatically optimizes routes between wireless mesh devices and creates a truly adaptive mesh infrastructure with all system. As the wireless environment changes, such as the addition of a new node or link broken, data paths are re-evaluated, and the mesh network self-tunes automatically to maintain its performance. All self-tuning processes are dynamic, occurring in the background and in real time.



Configuration and management with ease

EWS1025CAM can be flexibly deployed either as a standalone wireless access point or as a managed access point controlled by a Neutron Wireless Management Switch; a part of EnGenius' integrated WLAN management solution, providing intuitive web-based configuration, management, and monitoring features. The EWS1025CAM is automatically discovered and provisioned by the Neutron Wireless Management Switch in your network, and once added into the managed device list, IT managers can effortlessly use individual or cluster settings to rapidly deploy numerous EWS1025CAM with the desired settings, saving repetitive configuration tasks.



2-Megapixel IP Camera

Wi-Fi

EDS6255

2-Megapixel Day & Night Wi-Fi Dome Network Camera

- Built-in 802.11b/g/n Wireless, up to 150Mbps

- 1/2.7" 2-Megapixel CMOS Sensor
- Up to 1920 x 1080 Resolution at 30fps
- H.264/MJPEG with Dual Stream
- Fixed LENs: 2.8mm, FOV120° (Diagonal)
- Day/Night Vision, Built-in IR Illuminators, Effective Up to 49 Feet / 15 Meters
- Featured with WDR, Smart IR, and Motion Detection
- Built-in Micphone
- Built-in Micro SD / SDXC Slot
- PoE 802.3af
- Supports the EnViewer APP, Available on the App Store or Google Play
- Cross-browser Supported (IE/Chrome/Firefox/Opera/Safari)
- Compact Size
- ONVIF Compatible (Profile S)

EDS5250

2-Megapixel Day & Night Bullet Network Camera

Wi-Fi

EDS5255

2-Megapixel Day & Night Wi-Fi Bullet Network Camera

- Built-in 802.11b/g/n Wireless, up to 150Mbps

- 1/2.7" 2-Megapixel CMOS Sensor
- Up to 1920 x 1080 Resolution at 30fps
- H.264/MJPEG with Dual Stream
- Fixed LENs: 2.8 mm, FOV120° (Diagonal)
- Day/Night Vision, Built-in IR Illuminators, Effective Up to 82 Feet / 25 Meters
- Featured with WDR, Smart IR, and Motion Detection
- PoE 802.3af
- Supports the EnViewer APP, Available on the App Store or Google Play
- Cross-browser Supported (IE/Chrome/Firefox/Opera/Safari)
- IP66 Waterproof Design
- Compact Size
- ONVIF Compatible (Profile S)

Optional Accessories

PoE Adapter

Gigabit

EPA5006GAT

Input 100V to 240V AC/50-60Hz

802.3af/at power supply

10/100/1000 PoE Solution

Gigabit

EPA5006GP

Input 100V to 240V AC/50-60Hz

Proprietary 54V/0.6A power supply

10/100/1000 PoE Solution

Comparison
Chart

WIRELESS MANAGEMENT PoE SWITCH

	PoE Gigabit Managed Smart Switch with WLAN controller			
	EWS7952FP	EWS1200-52TP	EWS1200-28TFP	EWS7928P
HARDWARE SPECIFICATION				
10/100/1000Mbps BASE-T PORT (RJ45)	48	48	24	24
SFP SLOT	4 x SFP	4 x SFP	4 x SFP	4 x SFP
RJ45 CONSOLE	1	1	1	1
PoE STANDARD	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at
PoE CAPABLE PORTS	port1-48	port1-48	port1-24	port1-24
POWER BUDGET	740w	410w	410W	185w
SOFTWARE SPECIFICATION				
	manage up to 50 APs	manage up to 50 APs	manage up to 50 APs	manage up to 50 APs
CENTRALIZED MANAGEMENT	CROSS-NETWORK AP MANAGEMENT VIA EZMASTER AP GROUP CONFIGURATION			
AP CONFIG & MANAGEMENT	AUTO CHANNEL SELECTION AUTO TX POWER BACKGROUND SCANNING CLIENT LIMITING CLIENT ISOLATION L2 ISOLATION VLAN ISOLATION VLAN TAG TRAFFIC SHAPING FAST ROAMING BAND STEERING RSSI THRESHOLD MULTIPLE SSID SECURE GUEST NETWORK LED ON/OFF CONTROL			
COMPREHENSIVE MONITORING	SYSTEM STATUS MONITORING DEVICE STATUS MONITORING WIRELESS CLIENT MONITORING WIRELESS TRAFFIC AND USAGE STATISTICS VISUAL TOPOLOGY VIEW FLOOR PLAN VIEW WIRELESS COVERAGE DISPLAY MAP VIEW ROGUE AP DETECTION			
MANAGEMENT & MAINTENANCE	KICK/BAN CLIENTS CAPTIVE PORTAL SEAMLESS MIGRATION ONE-CLICK UPDATE BULK FIRMWARE UPGRADE SYSLOG REMOTE LOGGING E-MAIL ALERT CONFIG IMPORT/EXPORT			
VLAN	802.1Q SUPPORT VLAN GROUP: MAX. STATIC VLAN #: 4094 VOICE VLAN			
QOS	QUEUE:8 802.1P COS/DSCP PRIORITY PORT-BASED COS			
L2 FEATURE	IGMP SNOOPING: V1, V2, V3 MLD SNOOPING 802.1D STP 802.1W RSTP 802.1S MSTP 802.3AD LINK AGGREGATION PORT TRUNKING: SUPPORT 8 PORTS/GROUP; 8 GROUPS PER DEVICE BANDWIDTH CONTROL JUMBO FRAME: 9,216BYTE			
SECURITY	RADIUS AUTHENTICATION 802.1X PORT-BASED ACCESS CONTROL/ GUEST VLAN PORT SECURITY - MAX. 256 ENTRIES PORT ISOLATION STORM CONTROL DOS ATTACK PREVENTION BDPU ATTACK PREVENTION L2/L3 ACCESS CONTROL LIST (ACL)			
MANAGEMENT	POE MANAGEMENT 802.3AZ ENERGY-EFFICIENT ETHERNET IPv6/IPv4 HTTPS TELNET SERVER SSH SERVER TFTP CLIENT /UPGRADE USER MANAGEMENT 802.1AB LLDP PORT MIRRORING COMMANDLINE INTERFACE (CLI) PING TRACE ROUTE SNMP V1/V2C/V3 RMON V1 SNTP SYSLOG DUAL IMAGE CABLE DIAGNOSTIC POE MANAGEMENT PORT MIRRORING FIRMWARE BURN-PROOF ZERO CONFIGURATION(BONJOUR) CABLE DIAGNOSTIC			

WIRELESS MANAGEMENT PoE SWITCH

	PoE Gigabit Managed Smart Switch with WLAN controller			
	EWS5912FP	EWS2910P	EWS1210-52TP	EWS1210-26TFP
			Developing	Developing
HARDWARE SPECIFICATION				
10/100/1000Mbps BASE-T PORT (RJ45)	10	8	48	24
SFP SLOT	2 x SFP	2 x SFP	4 x SFP +	2 x SFP +
RJ45 CONSOLE	1	-	1	1
PoE STANDARD	IEEE 802.3af/at	802.3af	IEEE 802.3af/at	IEEE 802.3af/at
PoE CAPABLE PORTS	port1-8	port1-8	port1-48	port1-24
POWER BUDGET	130w	61.6w	410w	410W
DIMENSION: WxDxH (mm)	330 x 230 x 44	240 x 105 x 27	440 x 410 x 44	440x260x44
SOFTWARE SPECIFICATION				
	manage up to 50 APs	manage up to 20 APs	manage up to 50 APs	manage up to 50 APs
CENTRALIZED MANAGEMENT	CROSS-NETWORK AP MANAGEMENT VIA EZMASTER AP GROUP CONFIGURATION			
AP CONFIG & MANAGEMENT	AUTO CHANNEL SELECTION AUTO TX POWER BACKGROUND SCANNING CLIENT LIMITING CLIENT ISOLATION L2 ISOLATION VLAN ISOLATION VLAN TAG TRAFFIC SHAPING FAST ROAMING BAND STEERING RSSI THRESHOLD MULTIPLE SSID SECURE GUEST NETWORK LED ON/OFF CONTROL			
COMPREHENSIVE MONITORING	SYSTEM STATUS MONITORING DEVICE STATUS MONITORING WIRELESS CLIENT MONITORING WIRELESS TRAFFIC AND USAGE STATISTICS VISUAL TOPOLOGY VIEW FLOOR PLAN VIEW WIRELESS COVERAGE DISPLAY MAP VIEW ROGUE AP DETECTION			
MANAGEMENT & MAINTENANCE	KICK/BAN CLIENTS CAPTIVE PORTAL SEAMLESS MIGRATION ONE-CLICK UPDATE BULK FIRMWARE UPGRADE SYSLOG REMOTE LOGGING E-MAIL ALERT CONFIG IMPORT/EXPORT			
VLAN	802.1Q SUPPORT VLAN GROUP: MAX. STATIC VLAN #: 4094 VOICE VLAN			
QOS	QUEUE:8 802.1P COS/DSCP PRIORITY PORT-BASED COS			
L2 FEATURE	IGMP SNOOPING: V1, V2, V3 MLD SNOOPING 802.1D STP 802.1W RSTP 802.1S MSTP 802.3AD LINK AGGREGATION PORT TRUNKING: SUPPORT 8 PORTS/GROUP; 8 GROUPS PER DEVICE BANDWIDTH CONTROL JUMBO FRAME: 9,216BYTE			
SECURITY	RADIUS AUTHENTICATION 802.1X PORT-BASED ACCESS CONTROL/ GUEST VLAN PORT SECURITY - MAX. 256 ENTRIES PORT ISOLATION STORM CONTROL DOS ATTACK PREVENTION BDPU ATTACK PREVENTION L2/L3 ACCESS CONTROL LIST (ACL)			
MANAGEMENT	POE MANAGEMENT 802.3AZ ENERGY-EFFICIENT ETHERNET IPv6/IPv4 HTTPS TELNET SERVER SSH SERVER TFTP CLIENT /UPGRADE USER MANAGEMENT 802.1AB LLDP PORT MIRRORING COMMANDLINE INTERFACE (CLI) PING TRACE ROUTE SNMP V1/V2C/V3 RMON V1 SNTP SYSLOG DUAL IMAGE CABLE DIAGNOSTIC POE MANAGEMENT PORT MIRRORING FIRMWARE BURN-PROOF ZERO CONFIGURATION(BONJOUR) CABLE DIAGNOSTIC			

WIRELESS MANAGEMENT SWITCH

	Gigabit Managed Smart Switch with WLAN Controller				
	EWS1200-52T	EWS1200-28T	EWS1200D-10T	EWS1210-52T	EWS1210-26T
				Developing	Developing
HARDWARE SPECIFICATION					
10/100/1000Mbps BASE-T PORT (RJ45)	48	24	8	48	24
SFP SLOT	4 x SFP	4 x SFP	2 x SFP	4 x SFP +	2 x SFP +
RJ45 CONSOLE	1	1	-	1	1
DIMENSION: WxDxH (mm)	440 x 260 x 44	440 x 260 x 44	240x105x27	440 x 260 x 44	440 x 260 x 44
SOFTWARE SPECIFICATION					
	manage up to 50 APs	manage up to 50 APs	manage up to 20 APs	manage up to 50 APs	manage up to 50 APs
CENTRALIZED MANAGEMENT	CROSS-NETWORK AP MANAGEMENT VIA EZMASTER AP GROUP CONFIGURATION				
AP CONFIG & MANAGEMENT	AUTO CHANNEL SELECTION AUTO TX POWER BACKGROUND SCANNING CLIENT LIMITING	CLIENT ISOLATION L2 ISOLATION VLAN ISOLATION VLAN TAG	TRAFFIC SHAPING FAST ROAMING BAND STEERING RSSI THRESHOLD	MULTIPLE SSID SECURE GUEST NETWORK LED ON/OFF CONTROL	
COMPREHENSIVE MONITORING	SYSTEM STATUS MONITORING DEVICE STATUS MONITORING WIRELESS CLIENT MONITORING WIRELESS TRAFFIC AND USAGE	STATISTICS VISUAL TOPOLOGY VIEW FLOOR PLAN VIEW WIRELESS COVERAGE DISPLAY	MAP VIEW ROGUE AP DETECTION		
MANAGEMENT & MAINTENANCE	KICK/BAN CLIENTS CAPTIVE PORTAL SEAMLESS MIGRATION	ONE-CLICK UPDATE BULK FIRMWARE UPGRADE SYSLOG	REMOTE LOGGING E-MAIL ALERT CONFIG IMPORT/EXPORT		
VLAN	802.1Q SUPPORT	VLAN GROUP: MAX. STATIC VLAN #: 4094	VOICE VLAN		
QOS	QUEUE: 8	802.1P COS/DSCP PRIORITY	PORT-BASED COS		
L2 FEATURE	IGMP SNOOPING: V1, V2, V3 MLD SNOOPING	802.1D STP 802.1W RSTP	802.1S MSTP 802.3AD LINK AGGREGATION	PORT TRUNKING: SUPPORT 8 PORTS/GROUP; 8 GROUPS PER DEVICE	BANDWIDTH CONTROL JUMBO FRAME: 9,216BYTE
SECURITY	RADIUS AUTHENTICATION 802.1X PORT-BASED ACCESS CONTROL/ GUEST VLAN	PORT SECURITY - MAX. 256 ENTRIES PORT ISOLATION	STORM CONTROL DOS ATTACK PREVENTION	BDPU ATTACK PREVENTION L2/L3 ACCESS CONTROL LIST (ACL)	
MANAGEMENT	802.3AZ ENERGY-EFFICIENT ETHERNET IPv6/IPv4 HTTPS TELNET SERVER SSH SERVER TFTP CLIENT /UPGRADE USER MANAGEMENT 802.1AB LLDP PORT MIRRORING	COMMAND LINE INTERFACE (CLI) PING TRACE ROUTE SNMP V1/V2C/V3 RMON V1 SNTP SYSLOG DUAL IMAGE CABLE DIAGNOSTIC	PORT MIRRORING FIRMWARE BURN-PROOF ZERO CONFIGURATION(BONJOUR) CABLE DIAGNOSTIC		

OUTD MANAI

	11AC Outdoor AP				
		/S870AP	EWS860AP	EWS660AP	EWS650AP
STANDARD		ac/a/b/g/n d Concurrent	802.11ac/a/b/g/n Dual Band Concurrent	802.11ac/a/b/g/n Dual Band Concurrent	802.11ac/a/b/g/n Dual Band Concurrent
HARDWARE SPECIFICATION					
ETHERNET LAN	2 * 10/100/1000Mbps (1 PSE Out)	2 * 10/100/1000Mbps (1 PSE Out)	2 * 10/100/1000Mbps (1 PSE Out)	2 * 10/100/1000Mbps	2 * 10/100/1000Mbps
ANTENNA	WLAN1(11ac/a/n): 4* Detachable Ant (N-type) WLAN2(11b/g/n): 4* Detachable Ant (N-type)	Internal / 5dBi	WLAN1(11ac/a/n): 3* Detachable Ant (N-type) WLAN2(11b/g/n): 3* Detachable Ant (N-type)	Internal Omni5dBi	Internal Omni5dBi
MAX. Tx POWER	2.4GHz :27dBm 5GHz :26dBm	2.4GHz :27dBm 5GHz :26dBm	2.4GHz :29dBm 5GHz :27dBm	2.4GHz :29dBm 5GHz :27dBm	2.4GHz :27dBm 5GHz :26dBm
PoESUPPORT	802.3at+/at	802.3at+/at	802.3at	802.3at	802.3at
POWERSUPPLY	48V/1.25A	48V/1.25A	48V/0.8A	48V/0.8A	48V/0.8A
RATING	IP67	IP67	IP68	IP55	IP55

INDOO R MANAGED AP

	11AC Indoor AP AC1733+N300Mbps
	EWS380AP
	Developing
STANDARD	802.11ac/a/b/g/n Tri-Radio
HARDWARE SPECIFICATION	
ETHERNET LAN	2 * 10/100/1000Mbps
ANTENNA	Internal / 2.4GHz: 4dBi Internal / 5GHz: 5dBi
MAX. Tx POWER	2.4GHz: 21dBm 5GHz: 20dBm
PoESUPPORT	802.3at
POWERSUPPLY	12V/2A

INDOO R MANAGED AP

	11AC Indoor AP				11AC Indoor Wall AP	11N Indoor Wall AP		11N Indoor AP	
	AC1733+N800Mbps		AC1300+N450Mbps	AC867+N300Mbps	AC867+N450Mbps	300+300Mbps	300Mbps	300+300Mbps	300Mbps
	EWS371AP	EWS370AP	EWS360AP	EWS350AP	EWS550AP	EWS510AP	EWS500AP	EWS310AP	EWS300AP
					Developing				
STANDARD	802.11ac/a/b/g/n Dual Band Concurrent with Scanning Radio		802.11ac/a/b/g/n Dual Band Concurrent	802.11ac/a/b/g/n Dual Band Concurrent	802.11ac/a/b/g/n Dual Band Concurrent	802.11a/b/g/n Dual Band Concurrent	802.11b/g/n	802.11a/b/g/n Dual Band Concurrent	802.11b/g/n
HARDWARE SPECIFICATION									
ETHERNET LAN	2 * 10/100/1000Mbps	2 * 10/100/1000Mbps	1* 10/100/1000Mbps	1* 10/100/1000Mbps	3 * 10/100Mbps Access Port (w/ 1 * PoE Out)	1 * 10/100/1000Mbps Uplink Port, 1 * RJ45 Pass-Through Port, 4 * 10/100Mbps Access Port (w/ 1 * PoE Out)	4 * 10/100Mbps Access Port (w/ 1 * PoE Out)	1* 10/100/1000Mbps	1* 10/100/1000Mbps
ANTENNA	WLAN1(11ac/a/n): 4* Detachable Ant (SMA) WLAN2(11b/g/n): 4* Detachable Ant (SMA)	Internal / 2.4GHz: 3dBi Internal / 5GHz: 5dBi Scanning Radio: 1dBi/2dBi	Internal / 5dBi	Internal / 5dBi	Internal / 4dBi	Internal / 4dBi	Internal / 4dBi	Internal / 5dBi	Internal / 5dBi
MAX. Tx POWER	2.4GHz: 28dBm 5GHz: 28dBm	2.4GHz: 28dBm 5GHz: 28dBm	2.4GHz: 28dBm 5GHz: 28dBm	2.4GHz: 26dBm 5GHz: 26dBm	2.4GHz: 26dBm 5GHz: 26dBm	2.4GHz: 20dBm 5GHz: 20dBm	21dBm	2.4GHz: 29dBm 5GHz: 26dBm	29dBm
PoESUPPORT	802.3at	802.3at	802.3at	802.3at	802.3af/at	802.3af/at	802.3af/at	802.3at/af	802.3af
POWERSUPPLY	12V/2A	12V/2A	12V/2A	12V/2A	48V/0.6A	48V/0.6A	48V/0.6A	12V/2A	12V/1A

	11AC Base Station	11N Base Station/CPE		11AC CPE	11N CPE	
	AC1300+N450Mbps	*300 Mbps*		*AC867Mbps*	*300 Mbps*	
	ENH1750EXT	ENH500	ENH202	EnStationAC	EnStation5	EnStation2
OUTDOOR AP & CPE						
STANDARD	802.11ac/a/b/g/n Dual Band Concurrent	802.11a/n	802.11b/g/n	802.11ac/a/n	802.11a/n	802.11b/g/n
HARDWARE SPECIFICATION						
LAN	2* 10/100/1000Mbps	2* 10/100Mbps	2* 10/100Mbps	2* 10/100/1000Mbps	2* 10/100Mbps	2* 10/100Mbps
ANTENNA	WLAN(11a/n) : 3* Detachable 7dBi Ant WLAN(11b/g/n) : 3* Detachable 5dBi Ant	1* Internal 13dBi 5GHz Panel Antenna (Dual Polarization)	1* Internal 10dBi 2.4GHz Panel Antenna (Dual Polarization)	1* Internal 19dBi 5GHz Panel Antenna	1* Internal 19dBi 5GHz Panel Antenna	1* Internal 13dBi 2.4GHz Panel Antenna
MODE	AP/WDS	AP/CB/CR/WDS	AP/CB/CR/WDS	AP/CB/WDS	AP/CB/CR/WDS	AP/CB/CR/WDS
MAX. Tx POWER	5GHz: 29dBm, 2.4GHz: 29dBm	5GHz: 27dBm	2.4GHz: 29dBm	5GHz: 26dBm	5GHz: 26dBm	2.4GHz: 26dBm
PoE SUPPORT	Proprietary 48-54V, 802.3at	Proprietary PoE 24V	Proprietary PoE 24V	Proprietary 48-54V, 802.3at	Proprietary PoE 24V	Proprietary PoE 24V
IP RATING	IP68	IP65	IP65	IP55	IP55	IP55
SOFTWARE SPECIFICATION						
	Transmit Power Control MSSID + VLAN / VLAN Pass-through / Management VLAN 802.1x/WEP/WPA/WPA2 WMM SNMP / PRIVATE MIB			Traffic Shaping EZ Controller (Network Management Software) Band Steering Fast Romaing		

11AC AP/CPE			11N Mini CPE			
AC1300+N450 Mbps	*AC867+N300 Mbps*	*AC867+N400 Mbps*	*300 Mbps*			
ENS1750	ENS1200	EN[illegible]XT	EN[illegible]XT	EN[illegible]XT	ENS500	ENS202
802.11ac/a/b/g/n Dual Band Concurrent	802.11ac/a/b/g/n Dual Band Concurrent	802.11ac/a/b/g/n Dual Band Concurrent	802.11a/n	802.11b/g/n	802.11a/n	802.11b/g/n
2* 10/100/1000Mbps	2* 10/100/1000Mbps	2* 10/100/1000Mbps	2* 10/100Mbps	2* 10/100Mbps	2* 10/100Mbps	2* 10/100Mbps
Internal 5dBi Dual Concurrent 2.4GHz/5GHz Omni Antenna	Internal 5dBi Dual Concurrent 2.4GHz/5GHz Omni Antenna	WLAN1(11ac/a/n): 2* Detachable Ant (SMA) WLAN2(11b/g/n): 2* Detachable Ant (SMA)	2* Detachable 5dBi 5GHz Omni Antenna (SMA)	2* Detachable 5dBi 2.4GHz Omni Antenna (SMA)	1* Internal 10dBi 5GHz Panel Antenna (Dual Polarization)	1* Internal 8dBi 2.4GHz Panel Antenna (Dual Polarization)
AP/WDS	AP/WDS	AP/CB/WDS	AP/CB/CR/WDS/ Repeater	AP/CB/CR/WDS/ Repeater	AP/CB/CR/WDS/ Repeater	AP/CB/CR/WDS/ Repeater
5GHz: 28dBm, 2.4GHz: 29dBm	5GHz: 26dBm, 2.4GHz: 27dBm	5GHz: 26dBm, 2.4GHz: 27dBm	5GHz: 26dBm	2.4GHz: 26dBm	5GHz: 26dBm	2.4GHz: 26dBm
Proprietary 48-54V, 802.3at	Proprietary 48-54V, 802.3at	Proprietary PoE 24V	Proprietary PoE 24V	Proprietary PoE 24V	Proprietary PoE 24V	Proprietary PoE 24V
IP55	IP55	IP55	IP65	IP65	IP65	IP65

Transmit Power Control
MSSID + VLAN / VLAN Pass-through / Management VLAN
802.1x/WEP/WPA/WPA2
WMM
SNMP / PRIVATE MIB

Traffic Shaping
EZ Controller (Network Management Software)
Band Steering
Fast Romaing

INDOOR AP

	11AC Ceiling Mount AP		11AC Desktop CB/AP	
	AC1300+N450 Mbps	*AC867+N300 Mbps*	*AC1300+N450 Mbps*	*AC867+N300 Mbps*
	EAP1750H	EAP1200H	ECB1750	ECB1200
STANDARD	802.11ac/a/b/g/n Dual Band Concurrent	802.11ac/a/b/g/n Dual Band Concurrent	802.11ac/a/b/g/n Dual Band Concurrent	802.11ac/a/b/g/n Dual Band Concurrent
HARDWARE SPECIFICATION				
LAN	1* 10/100/1000Mbps	1* 10/100/1000Mbps	1* 10/100/1000Mbps	1* 10/100/1000Mbps
ANTENNA	Internal / 5dBi	Internal / 5dBi	Detachable SMA 6*5dBi	Detachable SMA 4*5dBi
MODE	AP/WDS	AP/WDS	AP/CB/WDS	AP/CB/WDS
MAX. Tx POWER	5GHz: 28dBm, 2.4GHz:28dBm	5GHz: 26dBm, 2.4GHz:26dBm	5GHz: 28dBm, 2.4GHz:28dBm	5GHz: 26dBm, 2.4GHz:26dBm
POWER SUPPLY	12V/2A	12V/2A	12V/2A	12V/2A
PoE SUPPORT	Proprietary 48-54V, 802.3at	Proprietary 48-54V, 802.3at	Proprietary 48V, 802.3at	Proprietary 48V, 802.3at
SOFTWARE SPECIFICATION				
	Transmit Power Control MSSID + VLAN / VLAN Pass-through / Management VLAN 802.1x/WEP/WPA/WPA2 WMM SNMP / PRIVATE MIB		Traffic Shaping EZ Controller (Network Management Software) Band Steering Fast Romaing	

	3x3 MIMO		2x2 MIMO	
	SA-5315	SA-2312	SA-5219	SA-2216
ANTENNA				
FREQUENCY	4.9~6GHz	2.3~2.7GHz	4.9~6GHz	2.3~2.7GHz
HARDWARE SPECIFICATION				
ANTENNA GAIN	15dBi	12dBi	19dBi	16dBi
POLARIZATION	Dual Polarization	Dual Polarization	Dual Polarization	Dual Polarization
VERTICAL BEAMWIDTH	9°	9°	9°	9°
HORIZONTAL BEAMWIDTH	120° (6dB)	120° (6dB)	120° (6dB)	120° (6dB)
VSWR	2:1 MAX	2:1 MAX	2:1 MAX	2:1 MAX
ISOLATION	25dB	25dB	25dB	25dB
ANTENNA PORT/TYPE	3 / N Type Plug	3 / N Type Plug	2 / N Type Plug	2 / N Type Plug
MECHANICAL SPECIFICATION				
DIMENSION	740 x 150 x 60mm	740 x 150 x 60mm	740 x 150 x 60mm	740 x 150 x 60mm
MOUNTING	Universal Pole Mount	Universal Pole Mount	Universal Pole Mount	Universal Pole Mount
TEMPERATION	Operating: -20-70degree; Storage:-30-80degree	Operating: -20-70degree; Storage:-30-80degree	Operating: -20-70degree; Storage:-30-80degree	Operating: -20-70degree; Storage:-30-80degree
HUMIDITY	Operating: 0-70%; Storage:0-95%	Operating: 0-70%; Storage:0-95%	Operating: 0-70%; Storage:0-95%	Operating: 0-70%; Storage:0-95%
WIND SURVIVABILITY	125mph	125mph	125mph	125mph

PoE Adapter

	PoE Adapter				
	Gigabit				10/100
	EPA2410GP	EPA5006GP	EPA5012GP	EPA5006GAT	EPA2406FP
HARDWARE SPECIFICATION					
AC Input	Input: AC100V~240V,50-60Hz				
PoE Output Standard	Proprietary 24V	Proprietary 54V	Proprietary 54V	802.3AF/AT	Proprietary 24V
Maximum Output	24W	32.8W	60W	30W	14.4W
Data Rate	10/100/1000 Mbps				10/100 Mbps
Protocol	CSMA/CD				
Physical Interface	1 x Data-in, 1 x PoE Out, 1 x DC Jack (IEC 320 C6)				
Data Lines	Pin1(Rx+)&Pin2(Rx-); Pin3(Tx+)&Pin6(Tx-)				
Power Lines	Pin4(Vdc+)&Pin5(Vdc+); Pin7(Vdc-)&Pin8(Vdc-)				
MECHANICAL SPECIFICATION					
Dimension (mm)	100x58.4x33.4				
Temperature	Operating: 0°~40°C (32°~140°F); Storage: -20°~70°C (-4°~158°F)				

IP Camera

	5-Megapixel	2-Megapixel			
	AP + Fisheye	*AP + Dome*	*Dome*	*Bullet*	
	EWS1255CAM	EWS1025CAM	EDS6255	EDS5255	EDS5250
	((Wi-Fi))	((Wi-Fi))	((Wi-Fi))	((Wi-Fi))	
	Developing				
SPECIFICATION					
STANDARD	802.11ac/a/b/g /n Dual Band Concurrent	802.11ac/a/b/g /n Dual Band Concurrent	802.11b/g/n	802.11b/g/n	-
SENSOR	1/3.2" CMOS	1/2.9" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS
LENS	f=1.9mm/F2.0 (FOV180°)	f =2.8mm/F2.0 (FOV120°)	f=2.8mm/F2.0 (FOV120°)	f=2.8mm/F2.0 (FOV120°)	f=2.8mm/F2.0 (FOV120°)
MAX. VIDEO RESOLUTION	1920x1080 @30fps	1920x1080 @30fps	1920x1080 @30fps	1920x1080 @30fps	1920x1080 @30fps
VIDEO COMPRESSION	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264 / MJPEG	H.264/MJPEG
IR ILLUMINATION	10Meters / 32Feet	20Meters / 65Feet	15Meters / 49Feet	25Meters / 82Feet	25Meters / 82Feet
ANTENNA	Int. Ant (6dBi)	Int. Ant (6dBi)	Int. Ant (3dBi)	Ext. Ant (2dBi)	-
POWER INPUT	802.3at PoE DC12V	802.3af PoE DC12V	802.3af PoE DC12V	802.3af PoE DC12V	802.3af PoE DC12V
AUDIO	1-Way audio	1-Way audio	1-Way audio		- -
ON-BOARD STORAGE	Micro-SD / SDXC slot	Micro-SD / SDXC slot	Micro-SD / SDXC slot		- -
WATERPROOF	-	-	-	IP66	IP66
OPERATION TEMP	0°C ~ 50°C	0°C ~ 50°C	0°C ~ 45°C	-20°C ~ 50°C	-20°C ~ 50°C
MOBILE APP PUSH NOTIFICATION	.	.	.	.	.
EnGeniusDDNS & P2P CONNECTION	.	.	.	.	.