EnSky Series

Outdoor Managed Access Points
Optimal Performance in Harsh Environments

EnGenius EnSky Series of Outdoor Access Points provide wider coverage, expanded capacity, and ultra-fast Wi-Fi in harsh environments. The powerful, business-class performance of access points are suitable for small to mid-size businesses who are looking for fast, long-rang outdoor Wi-Fi access.

High-Capacity 11ax Speed & Performance
Support faster 11ax (Wi-Fi 6) wireless speed in heavy multi-application traffic services. More devices can be used simultaneously with less latency.

Outdoor Access Points Perform Better in Harsh Environments
EnGenius outdoor APs Withstand temperatures ranging from -20˚ C to 60˚C, IP55-IP68 standard waterproofing, and anti-UV protection.

**Flexible deployments with Power-over-Ethernet**
Flexible AP placement is possible with PoE support. Deploy outdoor APs where power supply is limited on 802.3at/af PoE-capable switches or PoE adapters up to 328 feet from the source. And reset to factory default via the reset button on the accompanied PoE adapter.

Reliable Connectivity & Network Protection
Ensure seamless, reliable connectivity for users and efficiently steer dual-band clients to the less congested 5 GHz band. Establish guest networks to prevent guest users from accessing network files or devices and segment user groups for increasing security and bandwidth control.
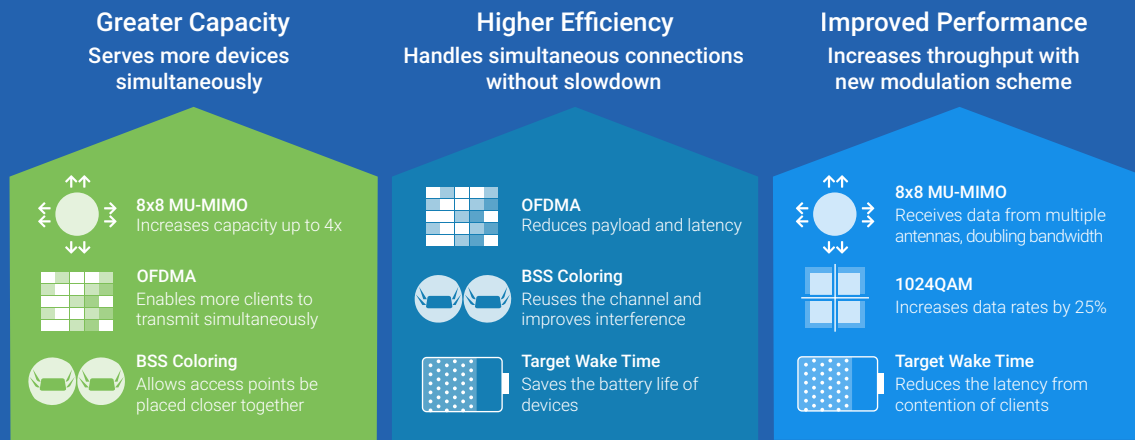
Features & Benefits

- Supports standards up to 802.11ax and backward compatible with ac wave2/ac/a/b/g/n client devices

- The latest Wi-Fi 6 technology features high-capacity, high-efficient, and enhanced performance

- Eliminate hidden node collisions to keep throughput more consistently in PtP/PtMP application with EnJet technology

- Industrial-grade IP68 or rugged IP55-rated housing. Withstands harsh environment to ensure your network operates in extreme outdoor climates

- Beamforming technology of 11ac optimizes signal, reception & reliability

- Versatile 4x4, 3x3, and 2x2 802.11 ax/ac/n access points with internal or detachable antennas for diverse PtP/PtMP outdoor usage

- Operate as a stand-alone AP or centrally managed via EnGenius SkyKey Controller or ezMaster software

- EnWiFi App enables users to configure devices quickly and monitor the installed or deployed devices on their smartphones or tablets.
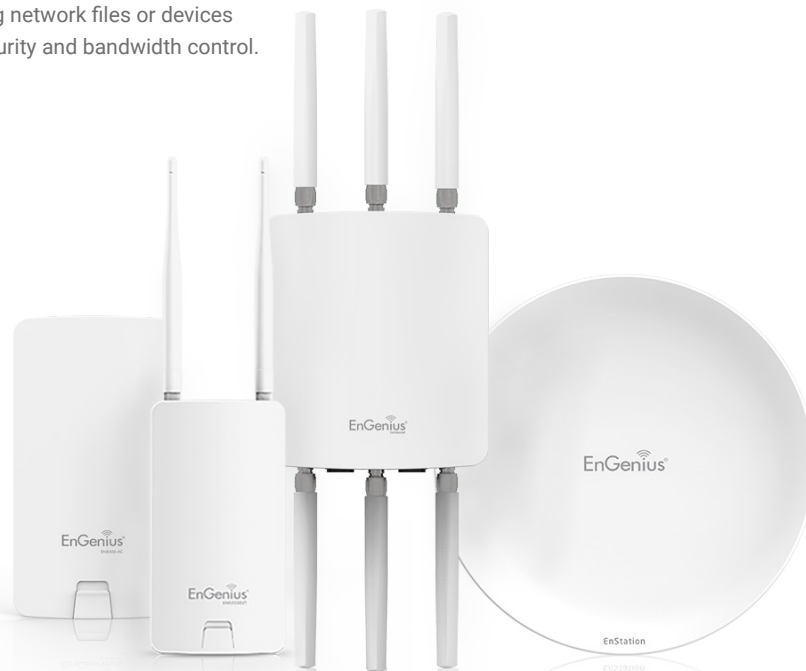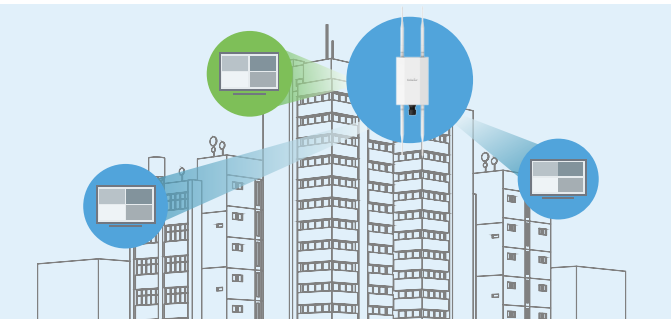
Outdoor Access Points Feature Highlights

The Future-Proof Next-Gen Wi-Fi 6

The new 802.11ax (Wi-Fi 6) technology builds upon real-world 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.

Greater Capacity
Serves more devices simultaneously

8x8 MU-MIMO
Increases capacity up to 4x

OFDMA
Enables more clients to transmit simultaneously

BSS Coloring
Allows access points be placed closer together

Higher Efficiency
Handles simultaneous connections without slowdown

OFDMA
Reduces payload and latency

BSS Coloring
Reuses the channel and improves interference

Target Wake Time
Saves the battery life of devices

Improved Performance
Increases throughput with new modulation scheme

8x8 MU-MIMO
Receives data from multiple antennas, doubling bandwidth

1024QAM
Increases data rates by 25%

Target Wake Time
Reduces the latency from contention of clients
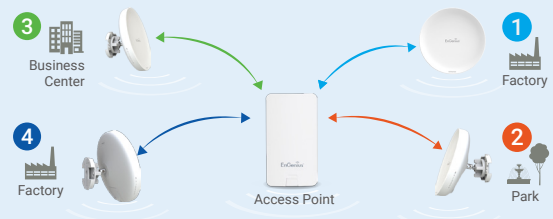
Ultra-Fast Connecting Speeds

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

Keep High Performance in Harsh Environments

Designed to perform in harsh conditions, EnSky and EWS Outdoor Access Points feature industrial-grade from IP55 to IP68-rated enclosures, ensuring the APs can withstand extreme outdoor climates. This includes prolonged outdoor exposure to sunlight, extreme cold, frost, snow, rain, hail, heat and humidity.
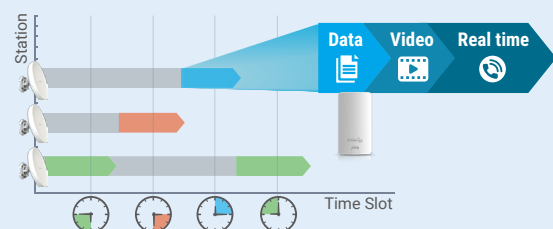
-20°C to 60°C

Industrial IP68

Anti UV

Achieve maximum throughput with EnJet Technology

EnJet™ technology provides steady maximum throughput and high link reliability by dividing a signal into different time slots and assigning them to every client even when bandwidth demands increase and client devices are added.
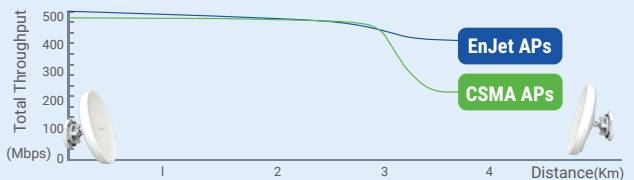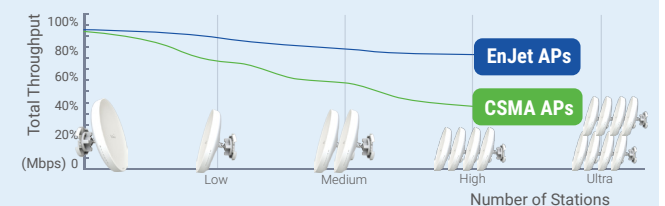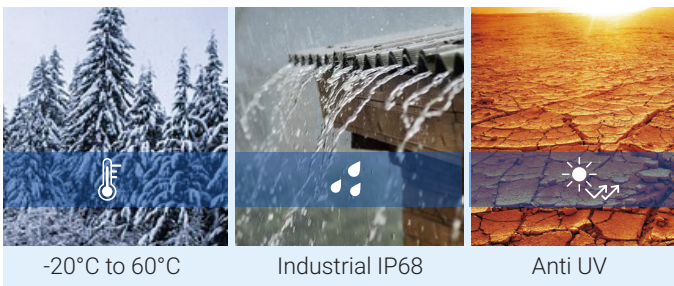
Time-based management improves transmission

3 Business Center
1 Factory
4 Factory
2 Park
Access Point

Prioritize the transmission of important data

Station

Data   Video   Real time

Time Slot

Maximize throughput at distances

Total Throughput (Mbps)
500
400
300
200
100
0

EnJet APs
CSMA APs

1   2   3   4   Distance(Km)

Keep consistent performance at scale

Total Throughput (Mbps)
100%
80%
60%
40%
20%
0

EnJet APs
CSMA APs

Low   Medium   High   Ultra
Number of Stations

Maximized Wi-Fi Coverage

EnSky Outdoor APs are designed for peak performance in a variety of outdoor environments providing high-performance reception and long-range connections. High-transmit power reaches up to 29dBm, ensuring reliable, long-range network coverage.
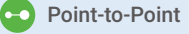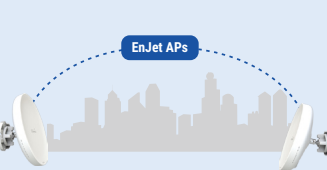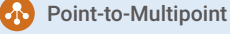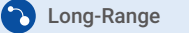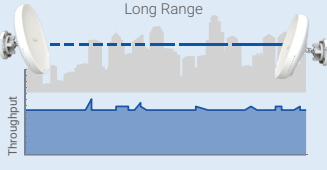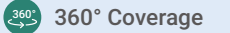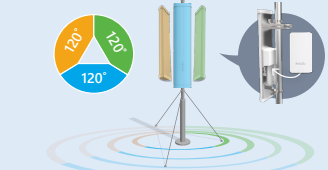
Flexible Power-over-Ethernet Power Options

EnSky outdoor access points support 1 or 2.5 Gigabit (Wi-Fi 6 series) PoE ports, enabling placement in locations where power outlets are scarce or unavailable such as on poles or rooftop eaves. Power the access points through a connected Ethernet cable directly to a Managed Gigabit PoE Switch or with a PoE adapter up to 328 meter from the power source. And reset to factory default simply via the reset button on the accompanied PoE adapter.

Simplified Deployment & Provisioning

In combination with SkyKey controller and ezMaster Network Management, EnSky APs are automatically discovered and provisioned. One-click individual or bulk configurations and upgrades save time. In addition, with EnGenius EnWiFi App, these access points can be quickly and easily configured and monitored via a smartphone or tablet by users even with limited networking experience.

Optimized for Flexible Outdoor Wireless Deployment with EnJet

Point-to-Point

EnJet APs

EnJet provides a more consistently stable throughput than standard CSMA connections by ordering transmissions into different time slots.

Point-to-Multipoint

EnJet Solution features time-division to avoid the hidden node problem commonly found in multi-point transmissions.

Long-Range

Long Range

Throughput

In long range deployments, EnJet ensures high throughput with high-gain antennas (EnStation5-AC/ EnStationAC), while traditional CSMA networks suffer from increasing latency at distance and network size.

360° Coverage

120° 120° 120°

ENS500EXT-AC supports the use of external antennas to extend coverage to 120 degrees. For an omnidirectional network, install three ENS500EXT-AC with EnGenius sector antenna SA5219 to cover 360° outdoor point-to-multipoint deployments.

Protected by Advanced Encryption

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

Secure Guest Networks

Organizations that offer Internet access to patrons or visitors— notably hotels, retail shops and restaurants—will appreciate 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.

On-Premises Management Platform

EnGenius EnSky's on-premises network management platform consists of SkyKey hardware and ezMaster management software. The platform empowers you to monitor, manage, and troubleshoot an indoor network locally or remotely. The plug-and-play SkyKey controller can manage up to 100 EnGenius access points or switches directly with built-in ezMaster software. ezMaster empowers you to setup and maintain multiple customer sites to save time and reduce the operational costs of site visits. You can manage up to 10,000.

Outdoor AP Comparison Table

Models	ENS202EXT	ENS500EXT-AC	ENS620EXT	ENH1350EXT
Wi-Fi Standard	802.11b/g/n	802.11a/b/g/n/ac Wave 2	802.11a/b/g/n/ac Wave 2	802.11a/b/g/n/ac Wave 2
Operating Radio	2.4 GHz	5 GHz	2.4 GHz & 5GHz	2.4 GHz & 5GHz
Management Radio	-	2.4 GHz	-	-
Max. Data Rate on 2.4GHz	300 Mbps	-	400 Mbps	400 Mbps
Max. Data Rate on 5GHz	-	867 Mbps	867 Mbps	867 Mbps
Radio Chains/ Spatial Streams	2 x 2:2	2 x 2:2	2 x 2:2	2 x 2:2
Transmit Power on 2.4GHz	26 dBm	-	27 dBm	23 dBm
Transmit Power on 5GHz	-	26 dBm	27 dBm	23 dBm
Integrated Antenna on 2.4GHz	-	-	-	-
Integrated Antenna on 5GHz	-	-	-	-
External Antenna on 2.4GHz	2 x 5 dBi (SMA-Type)	-	2 x 5 dBi (SMA-Type)	2 x 5 dBi (SMA-Type)
External Antenna on 5GHz	-	2 x 5dBi (SMA)	2 x 5 dBi (SMA-Type)	2 x 5 dBi (SMA-Type)
Power-over-Ethernet	24V Proprietary	24V Proprietary	24V Proprietary	802.3af/at
Ethernet Ports	2 x 10/100 Ethernet Ports	2 x 10/100/1000 Ethernet Ports	2 x 10/100/1000 Ethernet Ports	1 x 10/100/1000 Ethernet Port
IP Rating	IP55	IP55	IP55	IP67
Dimensions	186 x 100 x 29 mm	186 x 100 x 29 mm	192 x 114 x 48 mm	174 x 111 x 30 mm
Operating Temperature	-20°C to 70°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
Surge Protection	L-L: 1KV L-G: 2KV	L-L: 1KV L-G: 2KV	L-L: 1KV L-G: 2KV	L-L: 1KV L-G: 2KV
ESD Protection	Air: 8KV	Air: 8KV	Air: 8KV	Air: 8KV
Mounting Type	Wall/Pole mount	Wall/Pole mount	Wall/Pole mount	Wall/Pole mount
Operating Modes	AP/CB/WDS AP/WDS BR/ WDS STA/Repeater	AP/CB/WDS AP/WDS BR/ WDS STA	AP/CB/WDS AP/WDS BR/ WDS STA/Repeater	AP/Mesh/CB/WDS AP/WDS BR/ WDS STA
Mesh Technology	-	-	-	V
MU-MIMO	-	V	V	V
Beamforming	-	V	V	V
On-premise management (ezMaster)	V	V	V	V
Mobile app (EnWiFi App)	V	V	V	V

Outdoor AP Comparison Table

Models	ENH1750EXT	EWS860AP	EWS850AP
Wi-Fi Standard	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/b/g/n/ac/ax
Operating Radio	2.4 GHz & 5 GHz	2.4 GHz & 5 GHz	2.4 GHz & 5GHz
Management Radio	-	-	-
Max. Data Rate on 2.4GHz	450 Mbps	450 Mbps	574 Mbps
Max. Data Rate on 5GHz	1,300 Mbps	1,300 Mbps	1,201 Mbps
Radio Chains/ Spatial Streams	3 x 3:3	3 x 3:3	2 x 2:2
Transmit Power on 2.4GHz	29 dBm	29 dBm	25 dBm
Transmit Power on 5GHz	29 dBm	29 dBm	23dBm
Integrated Antenna on 2.4GHz	-	-	-
Integrated Antenna on 5GHz	-	-	-
External Antenna on 2.4GHz	3 x 5 dBi (N-Type)	3 x 5 dBi(N-Type)	2 x 5 dBi (SMA-Type)
External Antenna on 5GHz	3 x 7 dBi (N-Type)	3 x 7 dBi (N-Type)	2 x 5 dBi (SMA-Type)
Power-over-Ethernet	802.3at (at in + af out)	802.3at (at in + af out)	802.3af/at
Ethernet Ports	2 x 10/100/1000 Ethernet Ports	2 x 10/100/1000 Ethernet Ports	1 x 10/100/1000/2500 Ethernet Port
IP Rating	IP68	IP68	IP67
Dimensions	285 x 218 x 53 mm	285 x 218 x 53 mm	190 x 124 x 47 mm
Operating Temperature	-20°C to 70°C	-20°C to 70°C	-20°C to 60°C
Surge Protection	L-L: 4KV L-G: 8KV	L-L: 4KV L-G: 8KV	L-L: 1KV L-G: 2KV
ESD Protection	Air: 6KV	Air: 6KV	Air: 8KV
Mounting Type	Wall/Pole mount	Wall/Pole mount	Wall/Pole mount
Operating Modes	AP/Mesh/CB/WDS AP/WDS BR/ WDS STA	AP/Mesh	AP/Mesh/WDS AP/WDS BR/ WDS STA
Mesh Technology	V	V	V
MU-MIMO	-	-	V
Beamforming	-	-	V
On-premise management (ezMaster)	V	V	V
Mobile app (EnWiFi App)	-	V	V

Outdoor CPE Comparison Table

Models	EnStation5-AC	EnStationAC	ENS500-AC
Wi-Fi Standard	802.11a/b/g/n/ac Wave 2	802.11a/b/g/n/ac Wave 2	802.11a/b/g/n/ac Wave 2
Operating Radio	5 GHz	5 GHz	5 GHz
Management Radio	2.4 GHz	2.4 GHz	2.4 GHz
Max. Data Rate on 2.4GHz	-	-	-
Max. Data Rate on 5GHz	867 Mbps	867 Mbps	867 Mbps
Radio Chains/ Spatial Streams	2 x 2:2	2 x 2:2	2 x 2:2
Transmit Power on 2.4GHz	-	-	-
Transmit Power on 5GHz	26 dBm	26 dBm	26 dBm
Integrated Antenna on 2.4GHz	-	-	-
Integrated Antenna on 5GHz (Antenna Beamwidth : Horizontal x Vertical)	19 dBi (Port1: 30°x18°; Port2: 18°x30°)	19 dBi (Port1: 30°x18°; Port2: 18°x30°)	14 dBi
External Antenna on 2.4GHz	-	-	-
External Antenna on 5GHz	-	-	-
Power-over-Ethernet	24V Proprietary	PoE: 802.3at PSE: 802.3af	24V Proprietary
Ethernet Ports	2 x 10/100/1000 Ethernet Ports	2 x 10/100/1000 Ethernet Ports	2 x 10/100/1000 Ethernet Ports
IP Rating	IP55	IP55	IP55
Dimensions	Φ190 x 38 mm	Φ190 x 38 mm	186 x 100 x 29 mm
Operating Temperature	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
Surge Protection	L-L: 1KV L-G: 2KV	L-L: 1KV L-G: 2KV	L-L: 1KV L-G: 2KV
ESD Protection	Air: 8KV	Air: 8KV	Air: 8KV
Mounting Type	Wall/Pole mount	Wall/Pole mount	Wall/Pole mount
Operating Modes	AP/CB/WDS AP/WDS STA	AP/CB/WDS AP/WDS STA	AP/CB/WDS AP/WDS STA
Mesh Technology	-	-	-
MU-MIMO	V	V	V
Beamforming	V	V	V
On-premise management (ezMaster)	V	V	V
Mobile app (EnWiFi App)	V	V	V

Outdoor CPE Comparison Table

Models	ENH500	ENS202
Wi-Fi Standard	802.11a/b/g/n/ac Wave 2	802.11b/g/n
Operating Radio	5 GHz	2.4 GHz
Management Radio	2.4 GHz	-
Max. Data Rate on 2.4GHz	-	300 Mbps
Max. Data Rate on 5GHz	867 Mbps	-
Radio Chains/ Spatial Streams	2 x 2:2	-
Transmit Power on 2.4GHz	-	26 dBm
Transmit Power on 5GHz	27 dBm	-
Integrated Antenna on 2.4GHz	-	8dBi (Port1: 78°x45°; Port2: 54°x59°)
Integrated Antenna on 5GHz	16dBi (Port1: 40°x20°; Port2: 40°x20°)	-
External Antenna on 2.4GHz	-	-
External Antenna on 5GHz	-	-
Power-over-Ethernet	24V Proprietary	24V Proprietary
Ethernet Ports	2 x 10/100/1000 Ethernet Ports	2 x 10/100 Ethernet Ports
IP Rating	IP55	IP55
Dimensions	260 x 84 x 55 mm	186 x 100 x 29 mm
Operating Temperature	-20°C to 60°C	-20°C to 70°C
Surge Protection	L-L: 1KV L-G: 2KV	L-L: 1KV L-G: 2KV
Mounting Type	Air: 8KV	Air: 8KV
ESD Protection	Wall/Pole mount	Wall/Pole mount
Operating Modes	AP/CB/WDS AP/WDS STA	AP/CB/WDS AP/WDS BR/ WDS STA
Mesh Technology	-	-
MU-MIMO	V	-
Beamforming	V	-
On-premise management (ezMaster)	V	V
Mobile app (EnWiFi App)	V	V

Software Lists

Access Points / CPE

Operating Models

Access Point
In Access Point Mode, AP behaves likes a central connection for stations or clients that support IEEE 802.11ax/ac/a/b/g/n networks. The stations and clients must be configured to use the same SSID (Service Set Identifier) and security password to associate with the AP. The AP supports up to eight SSIDs per band at the same time for secure access.

Client Bridge
The Access Points can be used as a centralized Access Point with which other En-Genius Wireless Client Bridges can associate; leveraging the long-range capability of their internal high-gain directional antennas, resulting in a very cost-effective solution to expand a company network over a multiple building campus.

WDS AP
This operating mode allows wireless connections to the Access Point using WDS technology. In this mode, configure the MAC addresses in both Access Points to enlarge the wireless area by enabling WDS Link settings.

WDS Bridge
In WDS Bridge Mode, the Access Points can wirelessly connect different LANs by configuring the MAC address and security settings of each device. Use this mode when two wired LANs located a small distance apart want
to communicate with each other. The best solution is to use the Access Point to onnect two wired LANs, as shown in the following diagram.

WDS Station
WDS Station mode expands the WDS by receiving a wireless signal/service and sharing it through the Ethernet port.

Mesh Mode
Regular scanning signal level of an environment to provide parameters for performing Auto Transmit power and auto channel.

*Supported operating mode will be varied by different models.

Exquisite RF Management

EnJet (Available on EnJet series)
EnJet provides a more consistently stable throughput than standard CSMA connections by ordering transmissions into different time slots. In long range deployments, EnJet ensures consistent performance, while traditional networks using the CSMA protocol suffer from exponentially increasing latency as distance and network size increases.

Time Slot (Available on EnJet series)
EnJet features PtP and PtMP technology, which lets your network overcome the latency of the CSMA/CA protocol design. Access points form a well-ordered flow of transmissions based on predefined times slots. Like cars, traffic is able flow efficiently when an external coordination mechanism is present (traffic lights) and can come to a sudden halt when it is not.

Station Priority (Available on EnJet series)
When an outdoor network spans large distances, its access points or stations are unable to detect each other's transmissions. Frequent collisions will occur when multiple points transmit simultaneously. EnJet features PtP and PtMP technology, which allocates
transmissions from remote locations into slots for efficient time-based management.

ACK timeout
Enabling the function to proceed the long-range transmission over 1Km should be perform the optimal value.

Auto Transmit Power
Automatically adjust power level when EnGenius Access Points operate wireless communication service under an environment.

Auto Channel
Automatically assign a clearly channel to perform RF transmission under a pervasive environment.

Bandwidth Selection
Choose bandwidth of channels, the widely bandwidth will carry more data to enhance the transmission throughput.

Transmit Power Configuration
Configure the Transmit power to tPe proper value for optimizing your network.

Fast Roaming (802.11k)
Collect the parameters of neighborhood Access Points to find the optimal AP.

Fast Roaming (802.11v)
Cognize the signal strength of client devices under each to steer these client devices to one of Access Points if signal level is less than the default value of AP systems.

Band Steering
Steer client devices to a proper frequency band for getting more bandwidth and speed under an Access Point. The change will improve overall performance.

Discard Legacy clients
Discard legacy 11 a/b/g client to prevent the slowing down performance of an Access Point. The action can let Access Point carry more client devices under a pervasive environment.

Disable 11ax transmission on 2.4GHz
Disable 11ax 2.4GHz wireless mode; the setting will be allowed client devices to associate with an Access Point throughout 11b/g/n mode.

Bit Rate Control (Min. Bit Rate)
An administrator can improve the performance of client devices on the 2.4 GHz and 5Ghz band via disabling lower bitrates on both radios. Setting the higher bit rate can be reduce the loading of Access Points and overall network, as well as improve performance on seamless roaming.

Optimize Performance

Quality of Service
Compliance with IEEE 802.11e standard
Prioritizes voice over data for both tagged and untagged traffic
Transmit video, voice and data at the same SSID

Power Save Mode (UAPSD)
Some client devices are enabled UAPSD as defaulted for saving their power. Under UAPSD, AP will keep the connection with client devices and without further transmission. When client devices send the request to AP, AP will start to transmit data. The U-APSD will be benefited for VOIP device to save power.

Pre-Authentication
Compliance with 802.11i &11x

PMK Caching
Compliance with 802.11i
If wireless client devices have authenticated to an access point, it does not perform a full authentication exchange when client devices roaming between access points.

Fast Roaming (802.11r)
Use a Fast Transition key to handover between Access Points. The behavior will assist client devices move from an AP to one of APs seamless under the same wireless network.

Multicast to Unicast Conversion
Using the IGMP protocol, an access Point delivers high definition content to a large number of clients simultaneously.

Easy to Management

Multiple SSIDs
Each radio interface is supported 8 sets of SSIDs. Each SSID can be worked to network client devices independently. Before performing advanced functions, users can consider enable either 2.4GHz or 5GHz radios, and both radio simultaneously.

Guest Network (Only in Stand-alone mode)
Isolate each client for avoiding an unnecessary touch, leaking sensitive data, and enhancing Internet security and reliability.

VLAN Tag
Independent VLAN setting can be enable or disable. Any packet that enters the Device without a VLAN tag will have a VLAN tag inserted with a PVID (Ethernet Port VID).

VLAN Per SSID
Integrate VLAN ID with a SSID interface to forward packets over the defined path.

Management VLAN
Feature is enabled with specified VLAN ID, the device will only allow management access with the same specified VLAN ID from remotely location by using protocols such as telnet, SSH, snmp, syslog etc.

Traffic Shaping
Controls the bottle of bandwidth to offer the limited bandwidth for an individual SSID or each client per Access Point.

Easy to Management

MAC Address Filtering
Filter up to 32 sets MAC addresses per SSID.

E-Mail Alert
Provides a network monitoring tool for administrators to stay informed the configuration change.

Finger Printing
The value added solution collects information of client devices including name of devices, IP address, MAC address, Operating system version, transmitting and receiving data, and signal level.

Save Configuration as Users Default
Save the customized configuration as default value. The saved default value will be resumed when pushing HW reset button or via web UI.

Scheduler AP/SSID Interfaces
Perform a regular reboot on access point at assigned schedule.
Perform it to enable or disable SSIDs of 2.4GHz or 5GHz interfaces from a period time. The change can save power of the AP.

SNMP &MIB
v1/v2c/v3 support
MIB I/II, Private MIB
CLI supported

RADIUS Accounting
Help operators to offload 3G to Wi-Fi seamlessly.

Wireless Clients list
Provide the list to display real status of wireless client devices on this Access Point.

Hotspot 2.0
This function will allow client devices to discover wireless Access Point under an environment and to automatically exchange data for getting authorization on accessing Internet when roaming between Access Points.

Comprehensive Protection

Wireless Encryption Standard
EnGenius supports the securable encryption including WPA2, WPA3 and OWE.

Hide SSID in beacons
Enable the hidden SSIDs function will let SSID invisible under SSIDs list when client devices seek to find the SSID.

L2 Isolation
Block the communication between the associated clients to communicate with other clients from all hosts on the same subnet.

L2 Isolation with whitelist
Users can enable this function to allow devices to be accessed by client devices when enabling L2 Isolation.

HTTPS
A secure communication protocol can be enabled to allow secure management web access over a computer network.

SSH Tunnel
A secure communication protocol can be enabled to allow secure remote shell access or command execution.

ezMaster

Controlling capability

Managing Qty of Devices
Maximum 1,000 pcs of EnGenius Access Points and switches when operating under VM platform.
Maximum 10,000 pcs of EnGenius Access Points and switches when operating under AMI platform.

Dashboard

Managed Access Points / Switches
Users can realize status of Access Points and Switches

System Resource Usage
CPU: Usage (%) of CPU for this ezMaster
Memory: Usage (%) of Memory for this ezMaster
Disk: Usage (%) of Disk for this ezMaster

System Overview
Users can realize ezMaster software version on this instance.

Recent Projects
Updated or revised projects are listed in the right side bar.

Global Settings

Account Management (Multi-Tenant)
Admin: A supervisor user can be considered as a master which can implement any managerial behaviors to your ezMaster.
Users: Admin can assign one of users to a project. Users can edit, manage, remove, add devices, and block/allow client devices to access Internet.
Managers: Admin can assign one of users to a project. Managers can edit, manage, remove devices, and block/allow client devices to access Internet.
Guests: Master can assign one of guests to a specified project. Under this project, a guest can review any information, except for configuration.

E-Mail Alert
Provide a network monitoring tool for administrators stay informed the configuration change.

System Overview
Backup overall setting of an ezMaster account. Users can restore this settings/configuration to one ezMaster easily.

Reboot/Reset
Select to reboot or reset your ezMaster VM under your application platform.

Background Scanning
Regular scanning signal level of an environment to provide parameters for performing Auto Transmit power and auto channel.

Diagnostic
Enable this function to detect the connecting status of this ezMaster.

Auto Transmit Power
Automatically adjust power level when EWS access points work at an environment.

Auto Channel
Automatically assign a clearly channel to perform RF transmission under a pervasive environment.

Software Update
Update ezMaster throughout manually update.
Update ezMaster throughout one-click-update function.

Inventory
Put AP to the inventory list before managing. You can choose either ways to add AP into your inventory,
A)Manually Insert MAC and checkcode for putting devices into inventory.
B)Import csv file to inventory. The csv file will be contented the MAC list of devices and checkcode.

Scheduler Settings
The value added solution collect information of client devices including name of devices, IP address, MAC address, Operating system version, transmitting and receiving data, and signal level.

Cluster Setting (Group Setting)

SSID Setting
Support 8 SSIDs on both 2.4GHz and 5GHz radios.
Users can enable either 2.4GHz or 5GHz radios, as well as enable both radios under a SSID.

Hidden SSID in beacons
Hide this SSID to avoid users for finding it.

VLAN Per SSID
Integrate VLAN ID with a SSID interface to forward packets over the defined path.

Fast Roaming
Collect parameters of neighborhood Access Points to find the optimal AP, then client devices will use a fast transition key to handover between AP.

Band Steering
Steer client devices to a proper frequency band for getting more bandwidth and speed under an Access Point.

NAS IP
The NAS IP address to be sent in RADIUS packets from that server.

NAS ID
It is primarily used to notify the source of RADIUS access request so that, the RADIUS server can choose policy for that request.

NAS Port
Assign a port to be sent in Radius packets from that server.

Wireless Encryption Standard
OWE
WPA3/WPA2 Personal (SAE/PSK-AES)
WPA3/WPA2 Enterprise

L2 Isolation
Block the communication between the associated clients to communicate with other clients from all hosts on the same subnet. The isolation will be greater for users to isolate each client devices for malicious behavior.

L2 Isolation with whitelist
Users can enable this function to allow devices to be accessed by client devices when enabling L2 Isolation.

Whited List/Blocked List per SSID
- Whited List: Enable a list to allow client devices for accessing to this SSID.
- Blocked List: Enable a list to block client devices for accessing to this SSID.
- Filter up to 32 sets of MAC addresses per SSID.

Captive Portal (NAT / Bridge mode)
Differentiate the authority of users on using Internet access. When enabling the NAT mode, the client devices will get IP form the default NAT server.

Traffic Shaping (bandwidth control)
- Controls the bottle of bandwidth to offer the limited bandwidth for an individual SSID or each client per Access Point.
- Traffic shaping function will be allowed to configure as Kbps or Mbps.

Hotspot 2.0
This function will allow client devices to discover wireless Access Point under an environment and to automatically exchange data for getting authorization on accessing internet when roaming between Access Points.

Social Login
The function will apply users information to achieve single sign-on which does not need to create a new account for a specific service. In this stage, EnGenius will support facebook login function.

Monitoring

Rogue AP Detection
Enable the function to detect the fake access points in the environment.

Active Clients
The page will show clients' information including client name, getting IP, MAC address, Client OS, SSID, Band, Tx, Rx, and RSSI information.

Access Point
Top ten traffic for the Managed AP. We can reserve data up to 7 days.

Visualization

Topology View
Topology view could assist users to realize status of your network and then find abnormal devices for trouble shooting easily.

Map View
Enter this view to find locations of Access Points or switches on global view of google map. You may also filter one of APs from google map easily.

Floor Plan View
Upload a floor plan for this project. Users can put a known floor plan and then place Access Points or switches on this view.

Mesh View
Mesh view also can be realize the overall topology for mesh.

Hotspot Service
Captive Portal profile setting will be set a profile to apply on one of SSIDs. Users can configure authentication types, session of connecting clients, redirect page types and redirect behavior.

System Overview
Users can realize ezMaster software version on the ezMaster / SkyKey management platform.

Recent Projects
Updated or revised projects are listed in the right side bar.

Maintenance

Bulk Update
Throughout this function to proceed mass upgrade procedure on a specific AP.

Bulk Update (Switch)
Throughout this function to proceed mass upgrade procedure on a specific switch.

One Click Update
Click one button to synchronize with server on checking up-to-date firmware and then decide to upgrade or not by users.
This function is available on Access Points, Switches, and ezMaster.

AP Remote Log
Synchronize clients' information of AP to a remote log server. The information will be included the MAC, browsing url, uptime, last seen and IP information of client devices.

Note: The capacity of AP will be reduced when enabling AP remote log function.

EnWiFi Mobile App

Controlling capability

Proceed Initial Configuration
When powering up EnGenius Access Points, users can use EnWiFi App to configure AP during initial settings.

Proceed Cluster (group) Settings
Users can set Wi-Fi interfaces settings, Operating modes, SSIDs settings and VLAN setting and then put to a cluster/group. This is easier for initial configuration throughout your mobile / pad devices.

In-time Monitoring
You can review dashboard of an AP to realize status of these devices and then proceed further management. These information includes signal level (RSSI), transmit / receive performance, latency, and firmware version.

Backup configure files
Users can backup configure files to your mobile devices and then restore to the Access Points. The backup and restore is greater on deploying same devices on multiple sites.

Firmware Update via OCU
Click one button to synchronize with server on checking up-to-date firmware and then decide to upgrade or not by users.

Specifications, Antenna Patterns, and Product Views

ENS202EXT Specifications

Radio Specification

Wi-Fi Standards
802.11b/g/n

Tx Power (Aggregated)
2.4GHz: Max. 26dBm*
5GHz: -

Data Rate
802.11b: 1, 2, 5.5, 11Mbps
802.11g: 6, 9, 12, 18, 36, 48, 54Mbps
802.11n: 6.5 to 300Mbps (MCS0 to MCS15, HT20 to HT40)
802.11ac: -
802.11ax: -
802.11ax (5GHz): -

SU-MIMO Capability
2.4GHz: 2x2
5GHz: -

MU-MIMO Capability
2.4GHz: 2x2
5GHz: -

Modulation Type
802.11b: BPSK,QPSK, CCK
802.11g/n: BPSK,QPSK, 16-QAM, 64-QAM
802.11ax: -

Support frequency
2400-2483.5MHz*

Tx Beamforming
-

Antenna Specification

2.4GHz
2 x 5dBi (SMA Type)

5GHz
-

Physical Interfaces

Networking Ethernet Port
2 x 10/100 BASE-T

DC-Input
-

Reset Button
Yes, proceed reset and reboot when pushing this button on the device.

Power Source and Consumption

Power over Ethernet (PoE)
Proprietary 24V

DC-Input
-

Power Consumption
PoE: Max. 10.486W

Mechanical Specification

Dimensions
186 x 100 x 29 mm

Weight
300 g

Environmental Specification

Operating Temperature
-20 to 70 °C

Storage Temperature
-40 to 80 °C

Storage Humidity
0 to 90% non-condensing

IP Rating
IP55

Surge Protection
L-L: 1KV
L-G: 2KV

ESD Protection
Air: 8KV

Mounting Method

Ceiling Mount
-

Wall Mount
Yes

Pole Mount
Yes

Regulatory Compliance and Certification

Regulatory Compliance
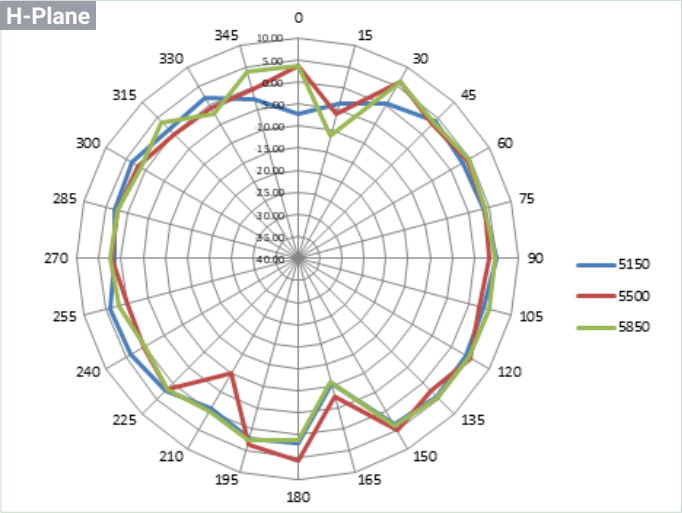FCC, CE, IC, NCC

Safety Compliance
CB, BSMI

Wi-Fi Alliance
-

WEEE
Yes

RoHS
Yes

*The available frequency bands and transmit power is varied by local regulatory.
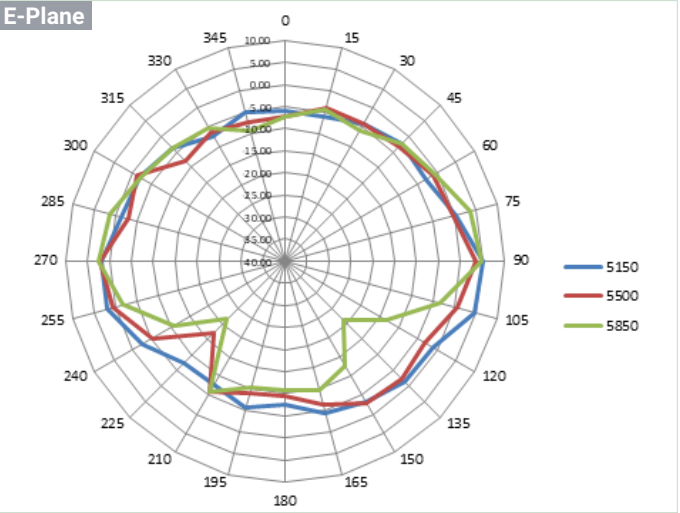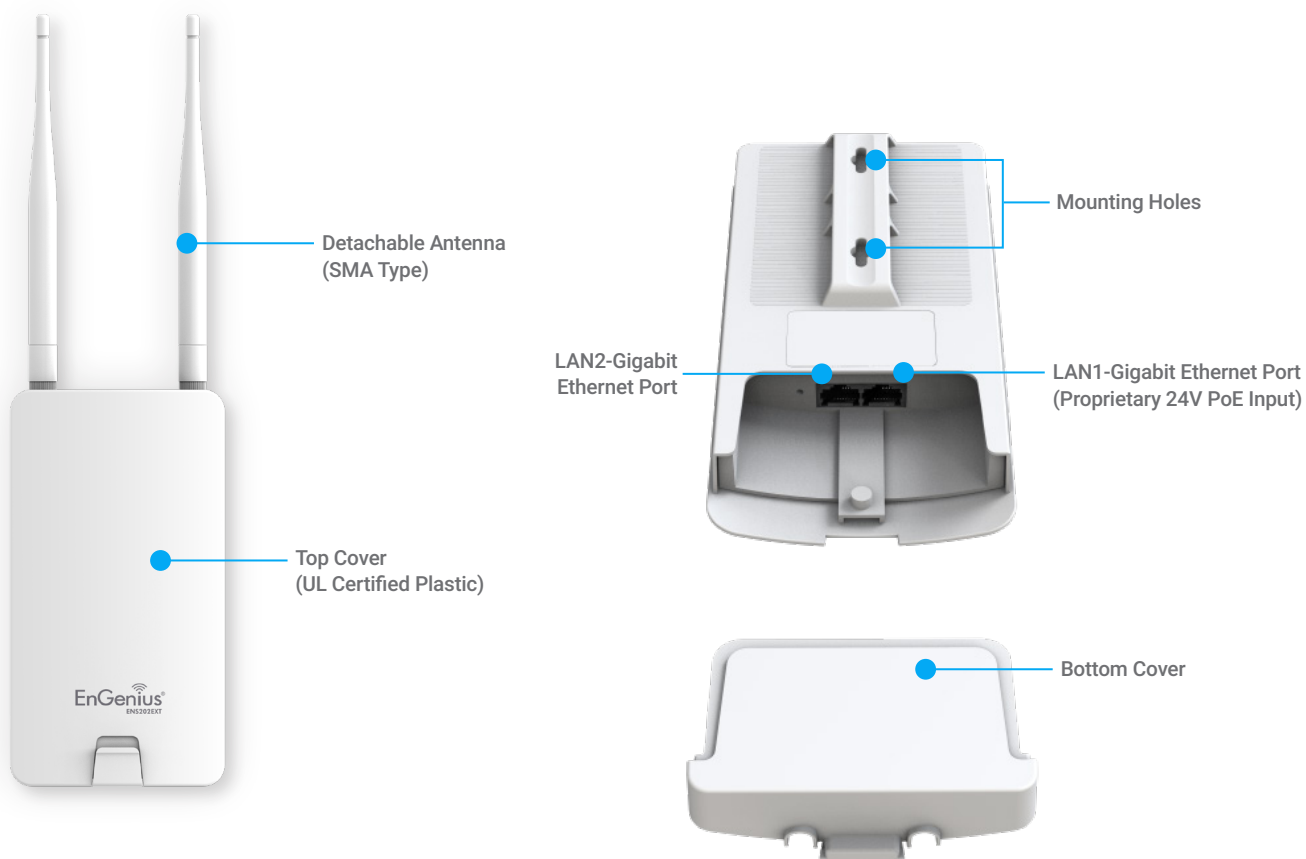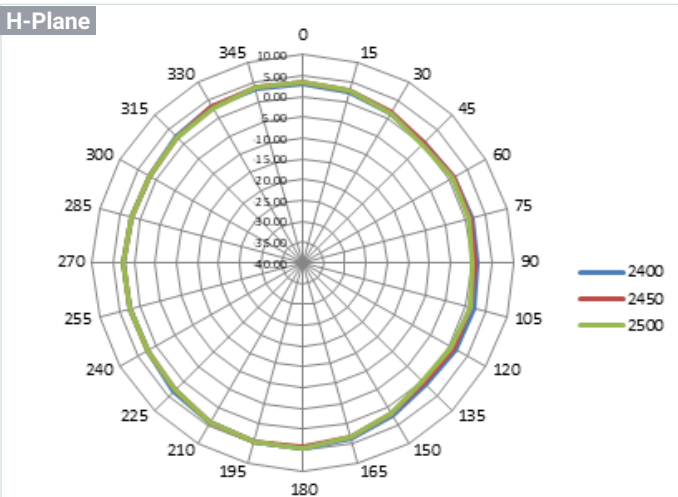
ENS202EXT Antenna Patterns
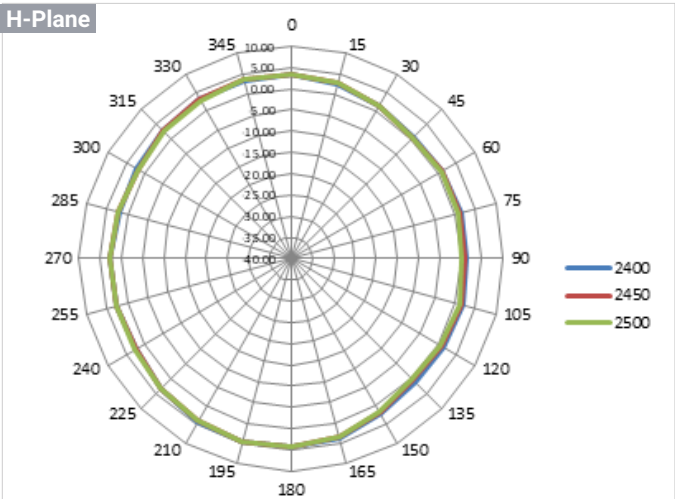
2.4GHz
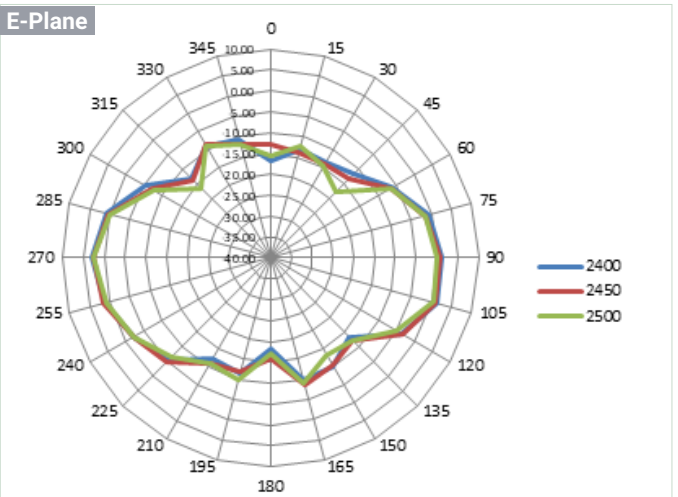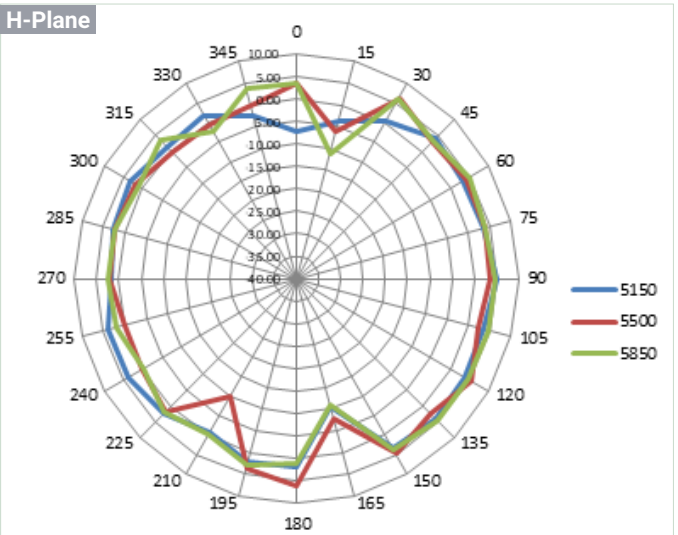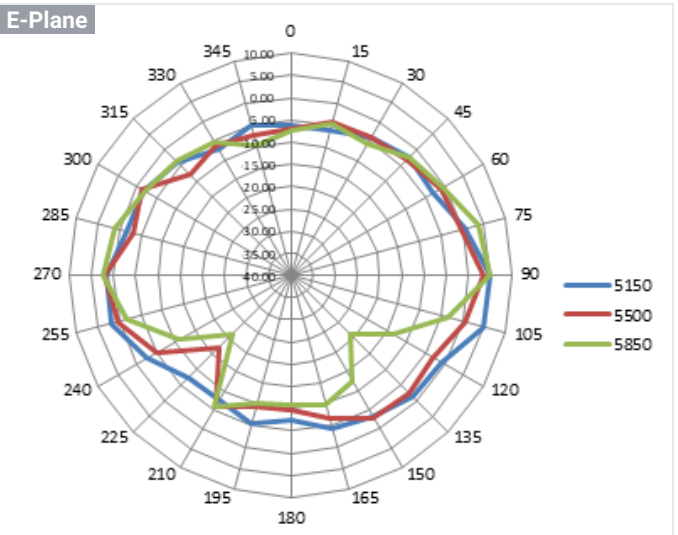**H-Plane**
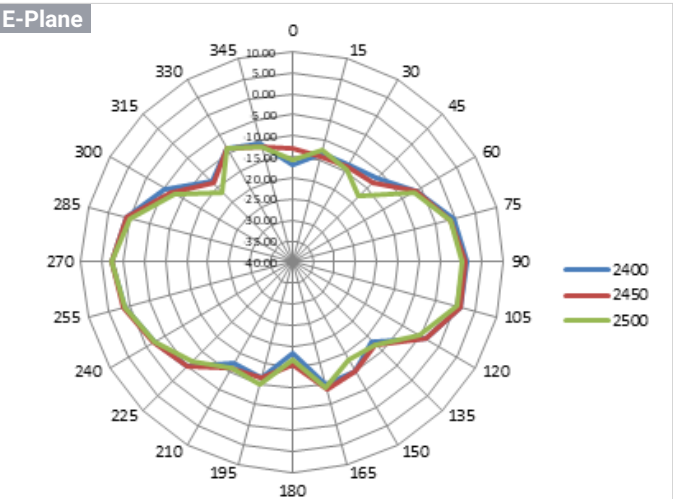
2.4GHz
E-Plane

ENS202EXT Product Views

Detachable Antenna
(SMA Type)

Top Cover
(UL Certified Plastic)

Mounting Holes

LAN2-Gigabit
Ethernet Port

LAN1-Gigabit Ethernet Port
(Proprietary 24V PoE Input)

Bottom Cover
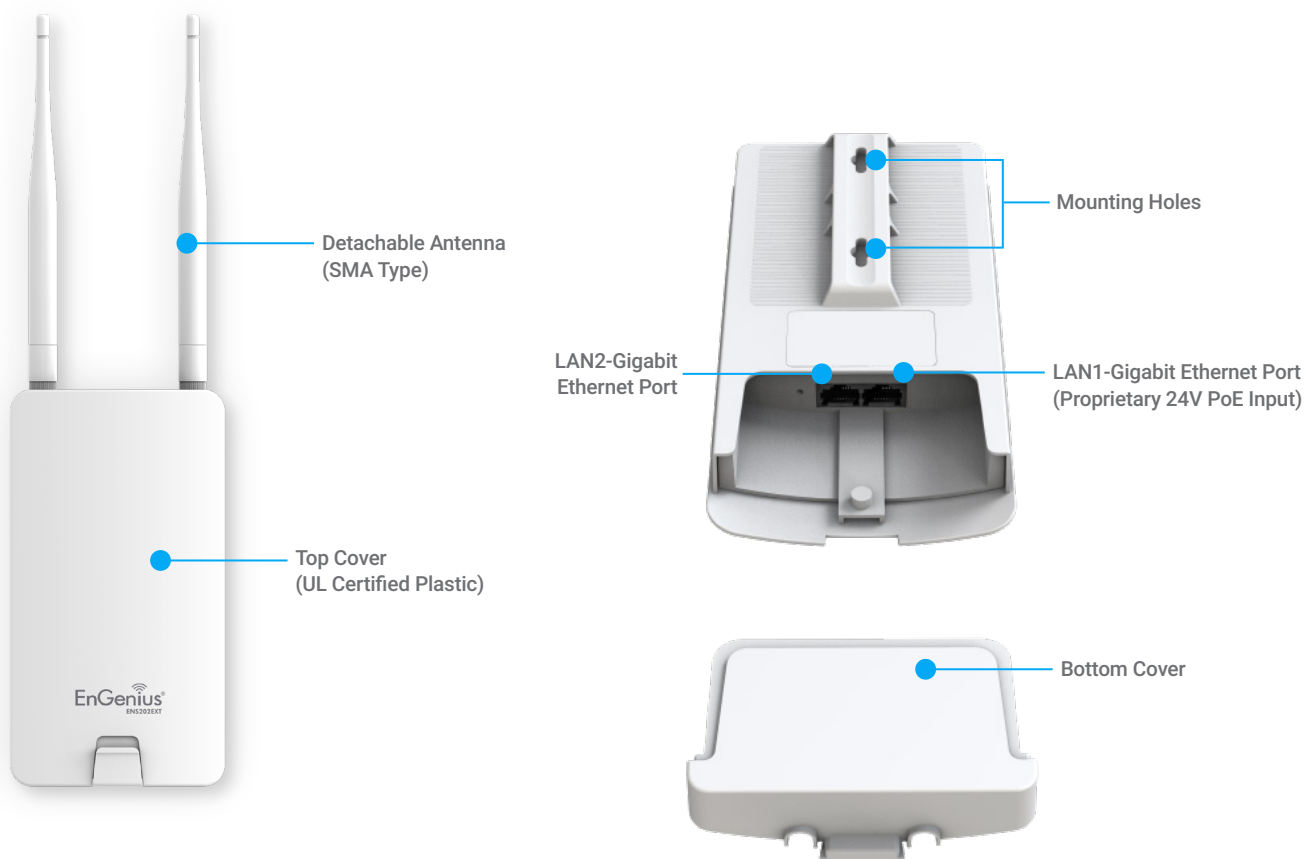
Specifications, Antenna Patterns, and Product Views

ENS500EXT-AC Specifications

Radio Specification

Wi-Fi Standards
802.11a/b/g/n/ac Wave 2

Tx Power (Aggregated)
2.4GHz: -
5GHz: Max. 26dBm*

Data Rate
802.11b: -
802.11a/g: 6, 9, 12, 18, 36, 48, 54Mbps
802.11n: 6.5 to 300Mbps (MCS0 to MCS15, HT20 to HT40)
802.11ac: 6.5 to 867Mbps (MCS0 to MCS9, NSS=1 to 2, VHT20 to VHT80)
802.11ax (2.4GHz): -
802.11ax (5GHz): -

SU-MIMO Capability
2.4GHz: 1x1 (management radio)
5GHz: 2x2

MU-MIMO Capability
2.4GHz: -
5GHz: 2x2

Modulation Type
802.11b: -
802.11a/g/n/ac: BPSK,QPSK, 16-QAM, 64-QAM, 256-QAM
802.11ax: -

Support frequency
2400-2483.5MHz, 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz*

Tx Beamforming
Yes

Antenna Specification

2.4GHz
-

5GHz
2 x 5dBi (SMA Type)

Physical Interfaces

Networking Ethernet Port
2 x 10/100/1000 BASE-T

DC-Input
-

Reset Button
Yes, proceed reset and reboot when pushing this button on the device or included EPA2406GR PoE Adapter

*The available frequency bands and transmit power is varied by local regulatory.

Power Source and Consumption

Power over Ethernet (PoE)
Proprietary 24V

DC-Input
-

Power Consumption
PoE: Max. 8.93W

Mechanical Specification

Dimensions
186 x 100 x 29 mm

Weight
504 g

Environmental Specification

Operating Temperature
-20 to 60 °C

Storage Temperature
-40 to 80 °C

Storage Humidity
0 to 90% non-condensing

IP Rating
IP55

Surge Protection
L-L: 1KV
L-G: 2KV

ESD Protection
Air: 8KV

Mounting Method

Ceiling Mount
-

Wall Mount
Yes

Pole Mount
Yes

Regulatory Compliance and Certification

Regulatory Compliance
FCC, CE, IC

Safety Compliance
CB, BSMI

Wi-Fi Alliance
-

WEEE
Yes

RoHS
Yes

ENS500EXT-AC Antenna Patterns

5GHz

H-Plane

5GHz

E-Plane

ENS500EXT-AC Product Views

Detachable Antenna
(SMA Type)

Top Cover
(UL Certified Plastic)

Mounting Holes

LAN2-Gigabit
Ethernet Port

LAN1-Gigabit Ethernet Port
(Proprietary 24V PoE Input)

Bottom Cover

Specifications, Antenna Patterns, and Product Views

ENS620EXT Specifications

Radio Specification

Wi-Fi Standards
802.11a/b/g/n/ac Wave 2

Tx Power (Aggregated)
2.4GHz: Max. 27dBm*
5GHz: Max. 27dBm*

Data Rate
802.11b: 1, 2, 5.5, 11Mbps
802.11a/g: 6, 9, 12, 18, 36, 48, 54Mbps
802.11n: 6.5 to 400Mbps (MCS0 to MCS15, HT20 to HT40, support 256-QAM modulation to achieve 400Mbps under 2.4GHz)
802.11ac: 6.5 to 867Mbps (MCS0 to MCS9, NSS=1 to 2, VHT20 to VHT80)
802.11ax (2.4GHz): -
802.11ax (5GHz): -

SU-MIMO Capability
2.4GHz: 2x2
5GHz: 2X2

MU-MIMO Capability
2.4GHz: 2x2
5GHz: 2X2

Modulation Type
802.11b: BPSK,QPSK, CCK
802.11a/g/n/ac: BPSK,QPSK, 16-QAM, 64-QAM, 256-QAM
802.11ax: -

Support frequency
2400-2483.5MHz, 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz*

Tx Beamforming
Yes

Antenna Specification

2.4GHz
2 x 5dBi (SMA Type)

5GHz
2 x 5dBi (SMA Type)

Physical Interfaces

Networking Ethernet Port
2 x 10/100/1000 BASE-T

DC-Input
-

Reset Button
Yes, proceed reset and reboot when pushing this button on the device.

*The available frequency bands and transmit power is varied by local regulatory.

Power Source and Consumption

Power over Ethernet (PoE)
Proprietary 24V

DC-Input
-

Power Consumption
PoE: Max. 15W

Mechanical Specification

Dimensions
192 x 114 x 48 mm

Weight
504 g

Environmental Specification

Operating Temperature
-20 to 60 °C

Storage Temperature
-40 to 80 °C

Storage Humidity
0 to 90% non-condensing

IP Rating
IP55

Surge Protection
L-L: 1KV
L-G: 2KV

ESD Protection
Air: 8KV

Mounting Method

Ceiling Mount
-

Wall Mount
Yes

Pole Mount
Yes

Regulatory Compliance and Certification

Regulatory Compliance
FCC, CE, IC, RCM, NCC

Safety Compliance
CB, UL, BSMI

Wi-Fi Alliance
Yes

WEEE
Yes

RoHS
Yes

ENS620EXT Antenna Patterns

2.4GHz **H-Plane**

2.4GHz **E-Plane**

5GHz **H-Plane**

5GHz **E-Plane**

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ENS620EXT Product Views

Derachable Antenna
(SMA Type)

Top Cover
(UL Certified Plastic)

LED Indicators

Mounting
Holes

Bottom Cover
(Aluminum Heatsink)

LAN2-Gigabit
Ethernet Port

LAN1-Gigabit Ethernet Port
(Proprietary 24V PoE Input)

Bottom
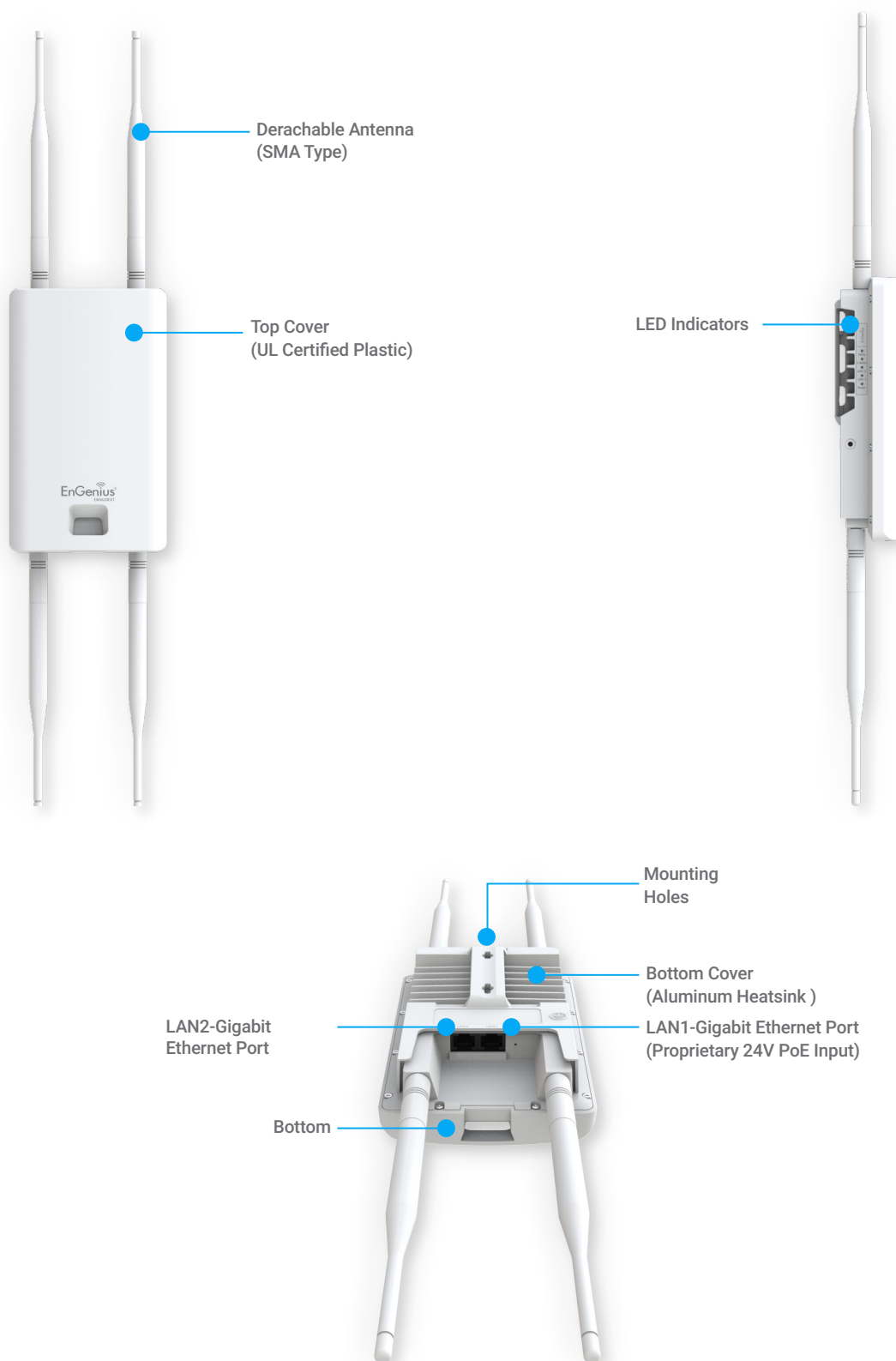
Specifications, Antenna Patterns, and Product Views

ENH1350EXT Specifications

Radio Specification

Wi-Fi Standards
802.11a/b/g/n/ac Wave 2

Tx Power (Aggregated)
2.4GHz: Max. 23dBm*
5GHz: Max. 23dBm*

Data Rate
802.11b: 1, 2, 5.5, 11Mbps
802.11a/g: 6, 9, 12, 18, 36, 48, 54Mbps
802.11n: 6.5 to 400Mbps (MCS0 to MCS15, HT20 to HT40, support 256-QAM modulation to achieve 400Mbps under 2.4GHz)
802.11ac: 6.5 to 867Mbps (MCS0 to MCS9, NSS=1 to 2, VHT20 to VHT80)
802.11ax (2.4GHz): -
802.11ax (5GHz): -

SU-MIMO Capability
2.4GHz: 2x2
5GHz: 2X2

MU-MIMO Capability
2.4GHz: 2x2
5GHz: 2X2

Modulation Type
802.11b: BPSK,QPSK, CCK
802.11a/g/n/ac: BPSK,QPSK, 16-QAM, 64-QAM, 256-QAM
802.11ax: -

Support frequency
2400-2483.5MHz, 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz*

Tx Beamforming
Yes

Antenna Specification

2.4GHz
2 x 5dBi (SMA Type)

5GHz
2 x 5dBi (SMA Type)

Physical Interfaces

Networking Ethernet Port
1 x 10/100/1000 BASE-T

DC-Input
-

Reset Button
Yes, proceed reset and reboot when pushing this button on the accompanied PoE adapter EPA5006GR

*The available frequency bands and transmit power is varied by local regulatory.

Power Source and Consumption

Power over Ethernet (PoE)
PoE: 802.3af/at , Proprietary 54V

DC-Input
-

Power Consumption
PoE: Max. 12.6W

Mechanical Specification

Dimensions
174 x 111 x 30 mm

Weight
829.5 g

Environmental Specification

Operating Temperature
-20 to 60 °C

Storage Temperature
-40 to 80 °C

Storage Humidity
0 to 90% non-condensing

IP Rating
IP67

Surge Protection
L-L: 1KV
L-G: 2KV

ESD Protection
Air: 8KV

Mounting Method

Ceiling Mount
-

Wall Mount
Yes

Pole Mount
Yes

Regulatory Compliance and Certification

Regulatory Compliance
FCC, CE, IC, NCC

Safety Compliance
CB, BSMI

Wi-Fi Alliance
Yes

WEEE
Yes

RoHS
Yes

ENH1350EXT Antenna Patterns
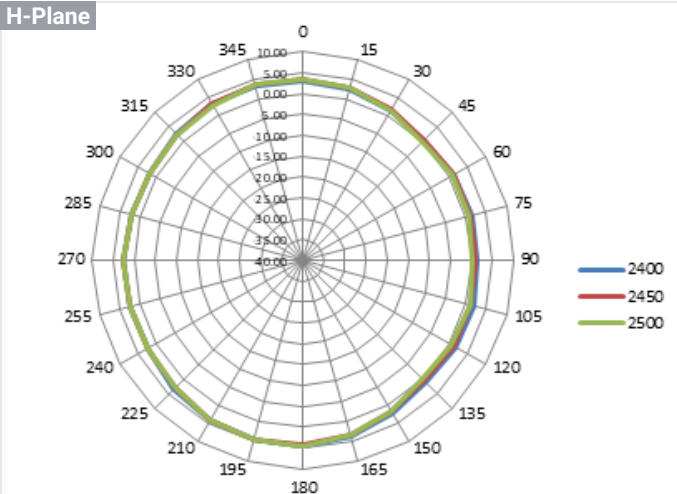
2.4GHz

H-Plane
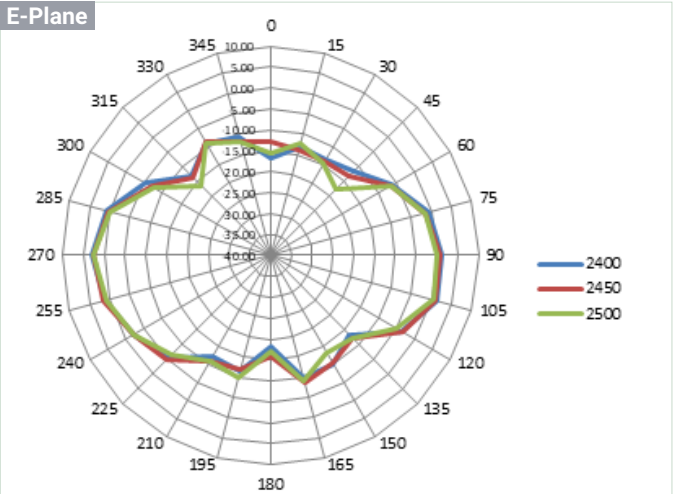
2.4GHz
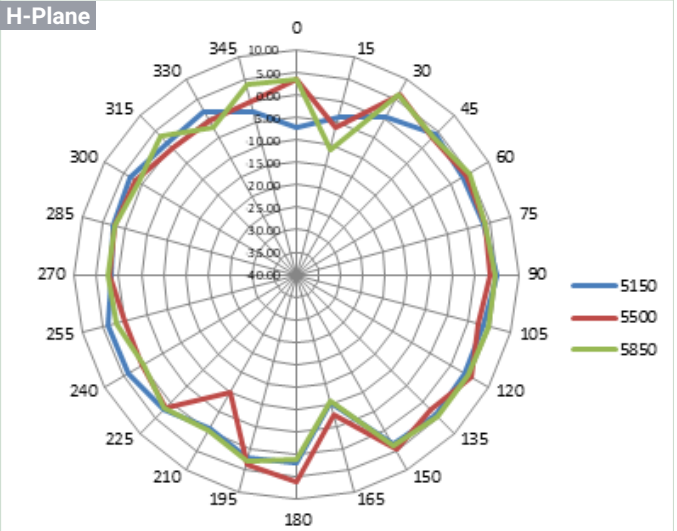
E-Plane

5GHz

H-Plane

5GHz

E-Plane

ENH1350EXT Product Views

Mounting Holes

Bottom Cover
(UL Certified Plastic)

LAN-Gigabit Ethernet Port
(802.3af/at PoE)

Detachable Antenna
(SMA Type)

Top Cover
(UL Certified Plastic)

LED Indicaters
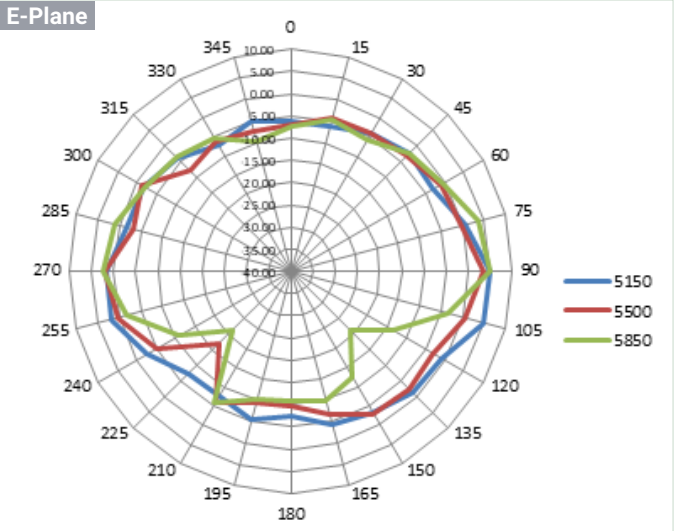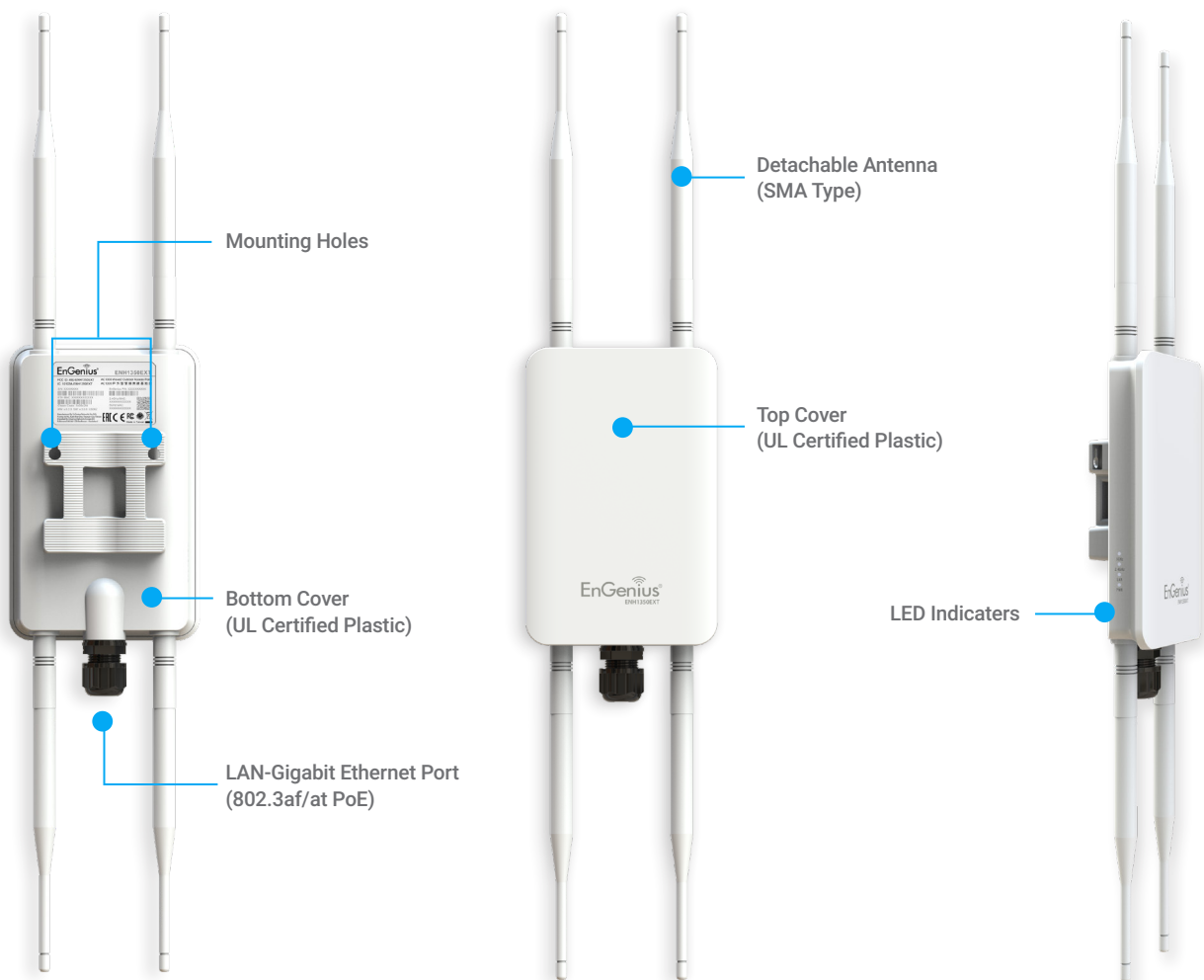
Specifications, Antenna Patterns, and Product Views

ENH1750EXT Specifications

Radio Specification

Wi-Fi Standards
802.11a/b/g/n/ac

Tx Power (Aggregated)
2.4GHz: Max. 29dBm*
5GHz: Max. 29dBm*

Data Rate
802.11b: 1, 2, 5.5, 11Mbps
802.11a/g: 6, 9, 12, 18, 36, 48, 54Mbps
802.11n: 6.5 to 450Mbps (MCS0 to MCS23, HT20 to HT40)
802.11ac: 6.5 to 1300Mbps (MCS0 to MCS9, NSS=1 to 3, VHT20 to VHT80)
802.11ax (2.4GHz): -
802.11ax (5GHz): -

SU-MIMO Capability
2.4GHz: 3x3
5GHz: 3x3

MU-MIMO Capability
2.4GHz: 3x3
5GHz: 3x3

Modulation Type
802.11b: BPSK,QPSK, CCK
802.11a/g/n/ac: BPSK,QPSK, 16-QAM, 64-QAM, 256-QAM
802.11ax: -

Support frequency
2400-2483.5MHz, 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz*

Tx Beamforming
-

Antenna Specification

2.4GHz
3 x 5dBi (N-Type)

5GHz
3 x 7dBi (N-Type)

Physical Interfaces

Networking Ethernet Port
2 x 10/100/1000 BASE-T

DC-Input
-

Reset Button
NA

Power Source and Consumption

Power over Ethernet (PoE)
PoE: 802.3at ; PSE: 802.3af when inputting 802.3at

DC-Input
-

Power Consumption
PoE: 22W; PoE+PSE: 37.4W

Mechanical Specification

Dimensions
285 x 218 x 56 mm

Weight
2070 g

Environmental Specification

Operating Temperature
-20 to 70 °C

Storage Temperature
-40 to 80 °C

Storage Humidity
0 to 90% non-condensing

IP Rating
IP68

Surge Protection
L-L: 4KV
L-G: 8KV

ESD Protection
Air: 6KV

Mounting Method

Ceiling Mount
-

Wall Mount
Yes

Pole Mount
Yes

Regulatory Compliance and Certification

Regulatory Compliance
FCC, CE, IC, RCM

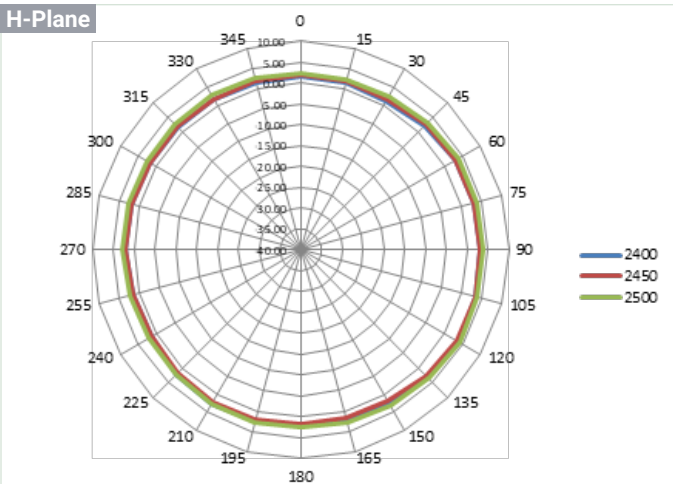**Safety Compliance**
CB

Wi-Fi Alliance
-

WEEE
Yes

RoHS
Yes

*The available frequency bands and transmit power is varied by local regulatory.
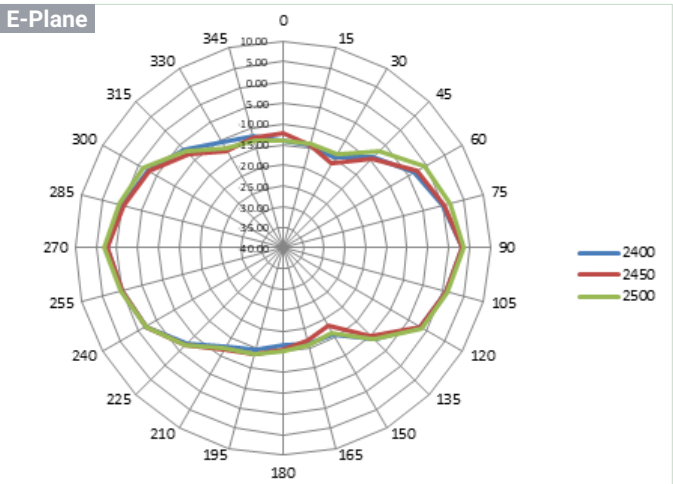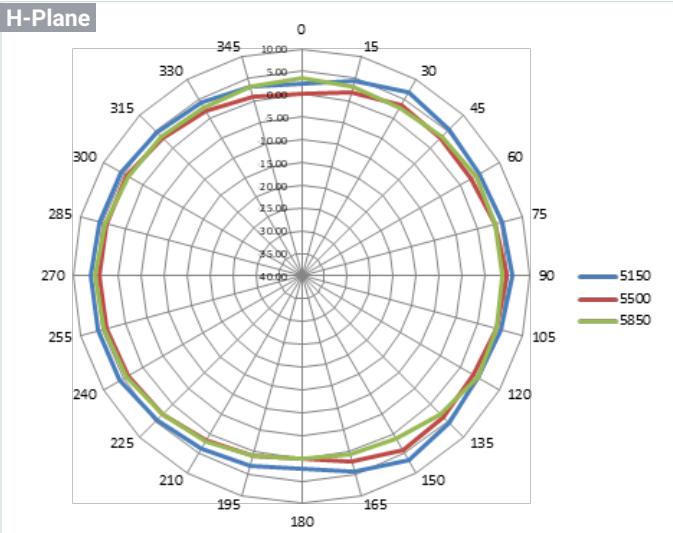
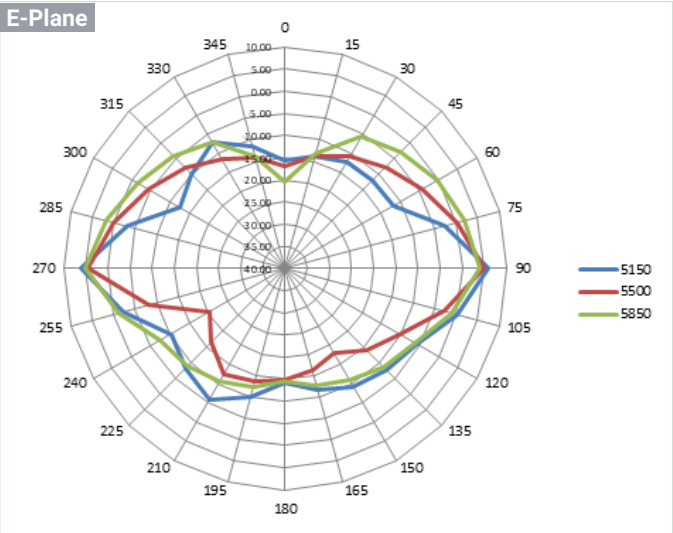# ENH1750EXT Antenna Patterns
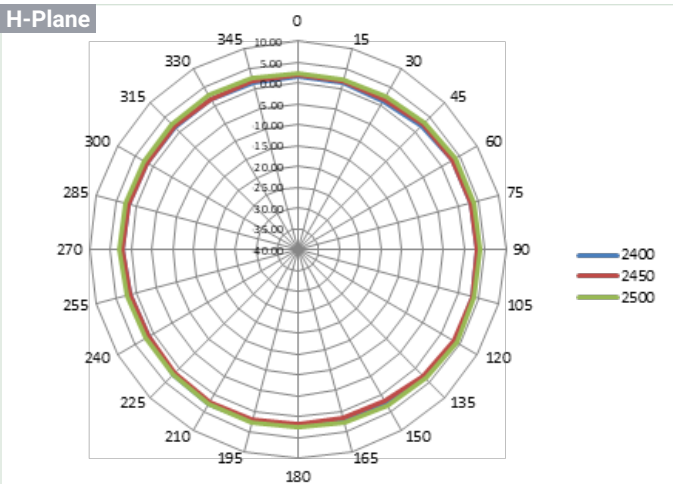
2.4GHz

H-Plane
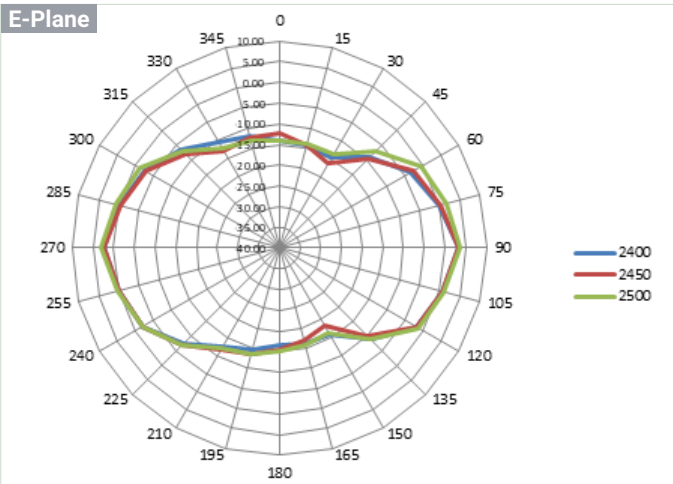
2.4GHz
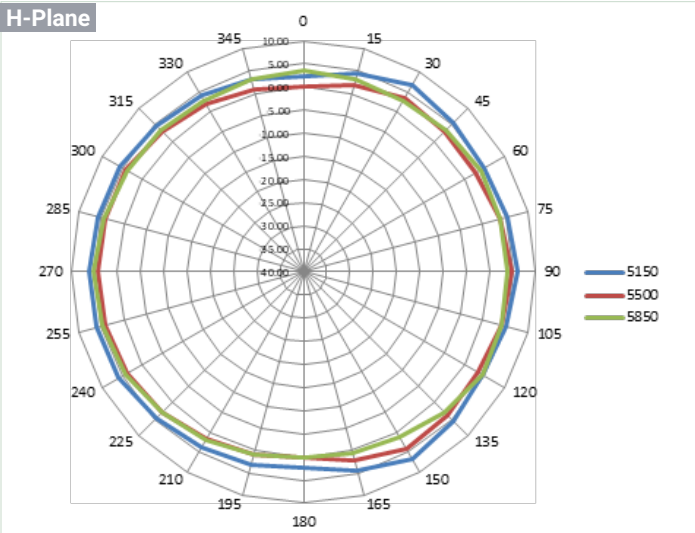
E-Plane

5GHz

H-Plane

5GHz

E-Plane

ENH1750EXT Product Views

5 GHz Antenna

2.4 GHz Antenna

2.4 GHz Antenna

Mounting Hole

Mounting Hole

Ground

LED Indicators

LAN1-Gigabit Ethernet Port (802.3at PoE Input)

LAN2-Gigabit Ethernet Port (802.3af PSE Output)
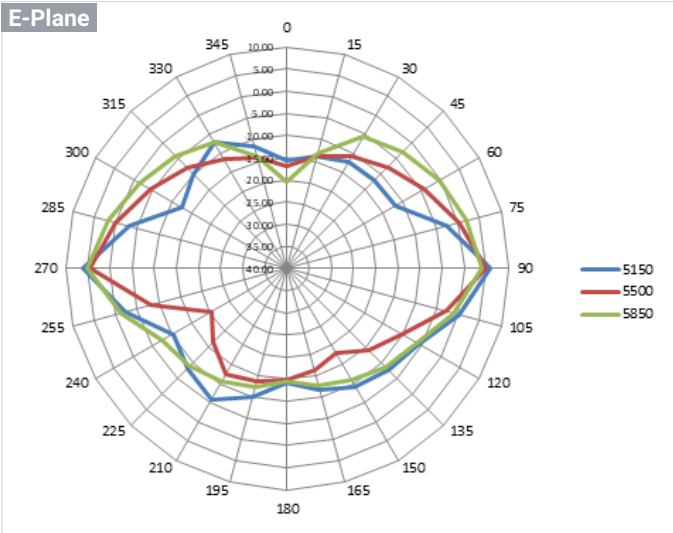
5 GHz Antenna

5 GHz Antenna
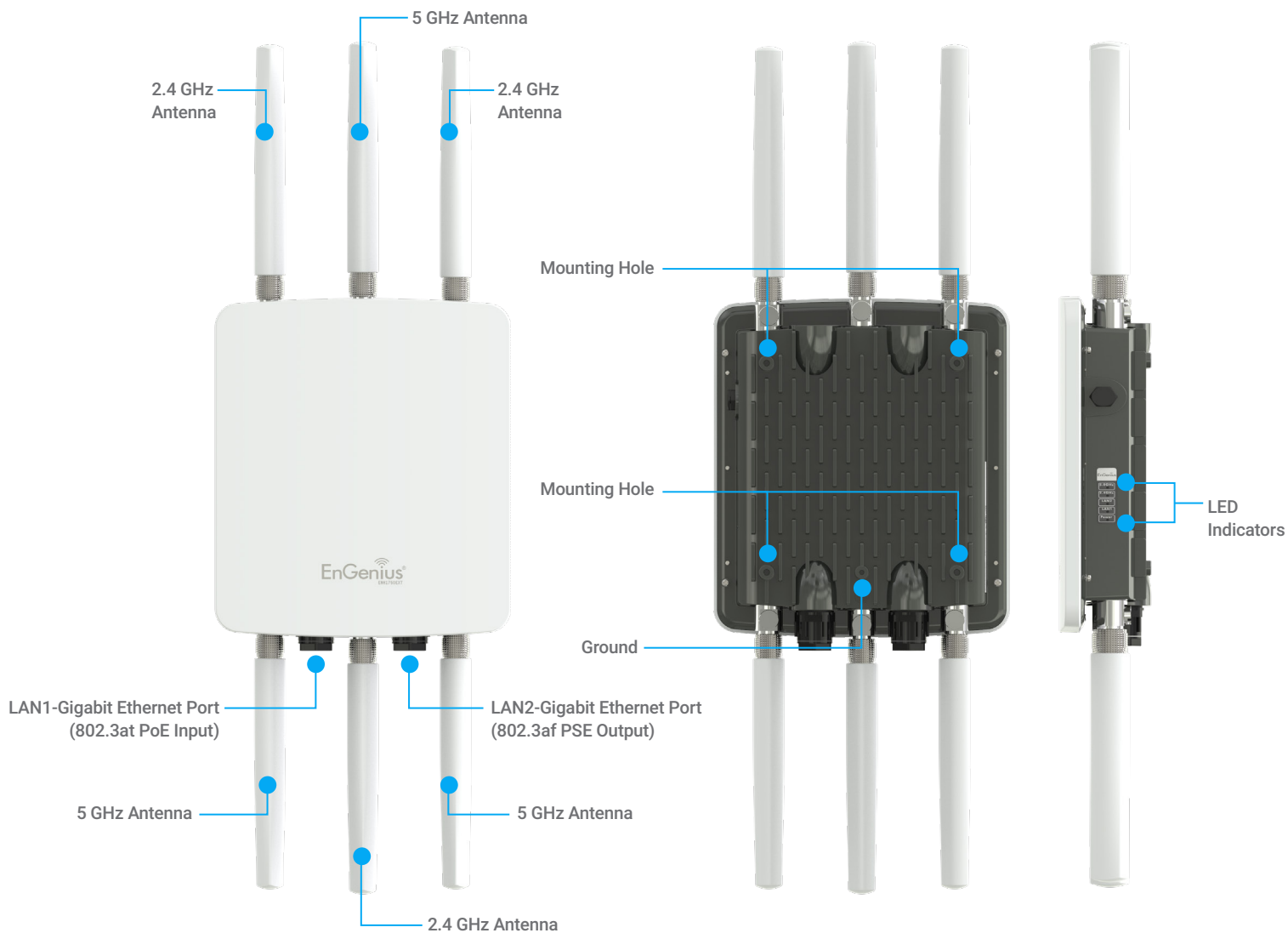
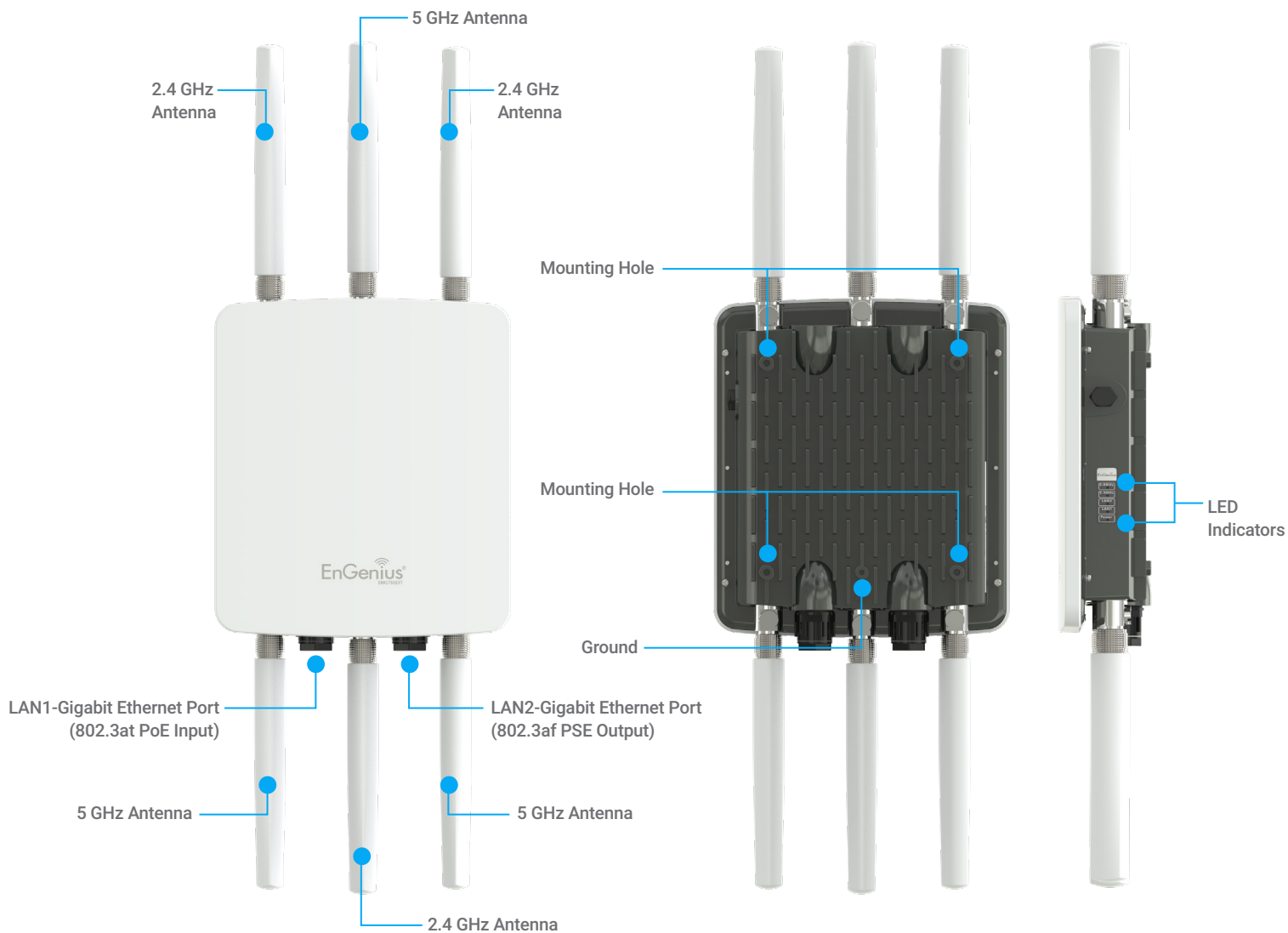2.4 GHz Antenna

Specifications, Antenna Patterns, and Product Views

EWS860AP Specifications

Radio Specification

Wi-Fi Standards
802.11a/b/g/n/ac

Tx Power (Aggregated)
2.4GHz: Max. 29dBm*
5GHz: Max. 29dBm*

Data Rate
802.11b: 1, 2, 5.5, 11Mbps
802.11a/g: 6, 9, 12, 18, 36, 48, 54Mbps
802.11n: 6.5 to 450Mbps (MCS0 to MCS23, HT20 to HT40)
802.11ac: 6.5 to 1300Mbps (MCS0 to MCS9, NSS=1 to 3, VHT20 to VHT80)
802.11ax (2.4GHz): -
802.11ax (5GHz): -

SU-MIMO Capability
2.4GHz: 3x3
5GHz: 3x3

MU-MIMO Capability
2.4GHz: 3x3
5GHz: 3x3

Modulation Type
802.11b: BPSK,QPSK, CCK
802.11a/g/n/ac: BPSK,QPSK, 16-QAM, 64-QAM, 256-QAM
802.11ax: -

Support frequency
2400-2483.5MHz, 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz*

Tx Beamforming
-

Antenna Specification

2.4GHz
3 x 5dBi (N-Type)

5GHz
3 x 7dBi (N-Type)

Physical Interfaces

Networking Ethernet Port
2 x 10/100/1000 BASE-T

DC-Input
-

Reset Button
NA

*The available frequency bands and transmit power is varied by local regulatory.

Power Source and Consumption

Power over Ethernet (PoE)
PoE: 802.3at ; PSE: 802.3af when inputting 802.3at

DC-Input
-

Power Consumption
PoE: 22W; PoE+PSE: 37.4W

Mechanical Specification

Dimensions
285 x 218 x 56 mm

Weight
2070 g

Environmental Specification

Operating Temperature
-20 to 70 °C

Storage Temperature
-40 to 80 °C

Storage Humidity
0 to 90% non-condensing

IP Rating
IP68

Surge Protection
L-L: 4KV
L-G: 8KV

ESD Protection
Air: 6KV

Mounting Method

Ceiling Mount
-

Wall Mount
Yes

Pole Mount
Yes

Regulatory Compliance and Certification

Regulatory Compliance
FCC, CE, IC, RCM, NCC

Safety Compliance
CB, BSMI

Wi-Fi Alliance
-

WEEE
Yes

RoHS
Yes

EWS860AP Antenna Patterns

2.4GHz

H-Plane

2.4GHz

E-Plane

5GHz

H-Plane

5GHz

E-Plane

EWS860AP Product Views

5 GHz Antenna

2.4 GHz Antenna

2.4 GHz Antenna

Mounting Hole

Mounting Hole

LED Indicators

Ground

LAN1-Gigabit Ethernet Port (802.3at PoE Input)

LAN2-Gigabit Ethernet Port (802.3af PSE Output)

5 GHz Antenna

5 GHz Antenna

2.4 GHz Antenna

Specifications, Antenna Patterns, and Product Views

EWS850AP Specifications

Radio Specification

Wi-Fi Standards
802.11a/b/g/n/ac/ax

Tx Power (Aggregated)
2.4GHz: Max. 23dBm
5GHz: Max. 25dBm*

Data Rate
802.11b: 1, 2, 5.5, 11Mbps
802.11a/g: 6, 9, 12, 18, 36, 48, 54Mbps
802.11n: 6.5 to 300Mbps (MCS0 to MCS15, HT20 to HT40)
802.11ac: 6.5 to 867Mbps (MCS0 to MCS9, NSS=1 to 2, VHT20 to VHT80)
802.11ax (2.4GHz): 9 to 574Mbps (MCS0 to MCS11, NSS=1 to 2, HE20 to HE40)
802.11ax (5GHz): 18 to 1201Mbps (MCS0 to MCS11, NSS=1 to 2, HE20 to HE80)

SU-MIMO Capability
2.4GHz: 2x2
5GHz: 2x2

MU-MIMO Capability
2.4GHz: 2x2
5GHz: 2x2

Modulation Type
802.11b: BPSK,QPSK, CCK
802.11a/g/n/ac: BPSK,QPSK, 16-QAM, 64-QAM, 256-QAM
802.11ax: BPSK,QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM

Support frequency
2400-2483.5MHz, 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz*

Tx Beamforming
Yes

Antenna Specification

2.4GHz
2 x 5dBi (SMA Type)

5GHz
2 x 5dBi (SMA Type)

Physical Interfaces

Networking Ethernet Port
1 x 10/100/1000/2500 BASE-T

DC-Input
-

Reset Button
Yes, proceed reset and reboot when pushing this button on the accompanied EPA5006GR PoE Adapter

*The available frequency bands and transmit power is varied by local regulatory.

Power Source and Consumption

Power over Ethernet (PoE)
PoE: 802.3at

DC-Input
-

Power Consumption
PoE: Max. 15.9W

Mechanical Specification

Dimensions
190 x 124 x 47 mm

Weight
TBD

Environmental Specification

Operating Temperature
-20 to 60 °C

Storage Temperature
-40 to 80 °C

Storage Humidity
0 to 90% non-condensing

IP Rating
IP67

Surge Protection
L-L: 1KV
L-G: 2KV

ESD Protection
Air: 8KV

Mounting Method

Ceiling Mount
-

Wall Mount
Yes

Pole Mount
Yes

Regulatory Compliance and Certification

Regulatory Compliance
FCC, CE, IC

**Safety Compliance**
CB

Wi-Fi Alliance
-

WEEE
Yes

RoHS
Yes

EWS850AP Antenna Patterns
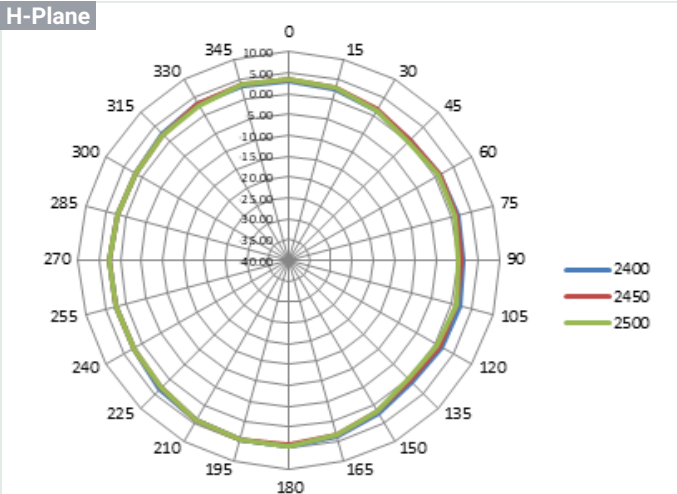
2.4GHz

H-Plane
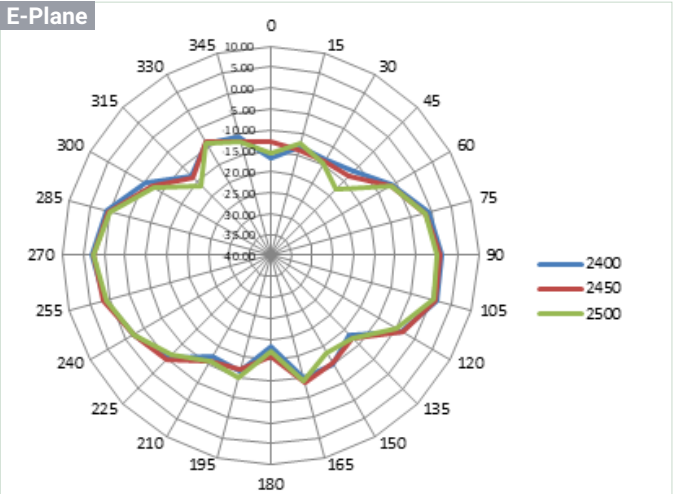
2.4GHz
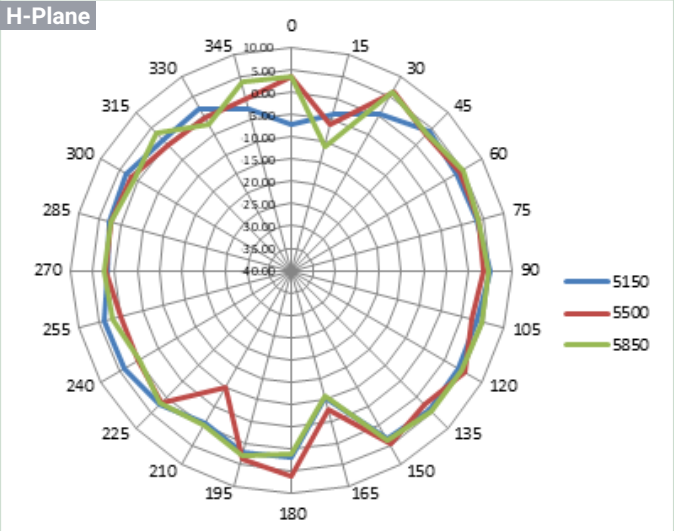
E-Plane

5GHz

H-Plane

5GHz

E-Plane

EWS850AP Product Views

Mounting Holes

Bottom Cover
(Aluminum Die-casting)

LAN-Gigabit Ethernet Port
(802.3at PoE)

Detachable Antenna
(SMA Type)

Top Cover
(UL Certified Plastic)

EnGenius®

LED Indicaters
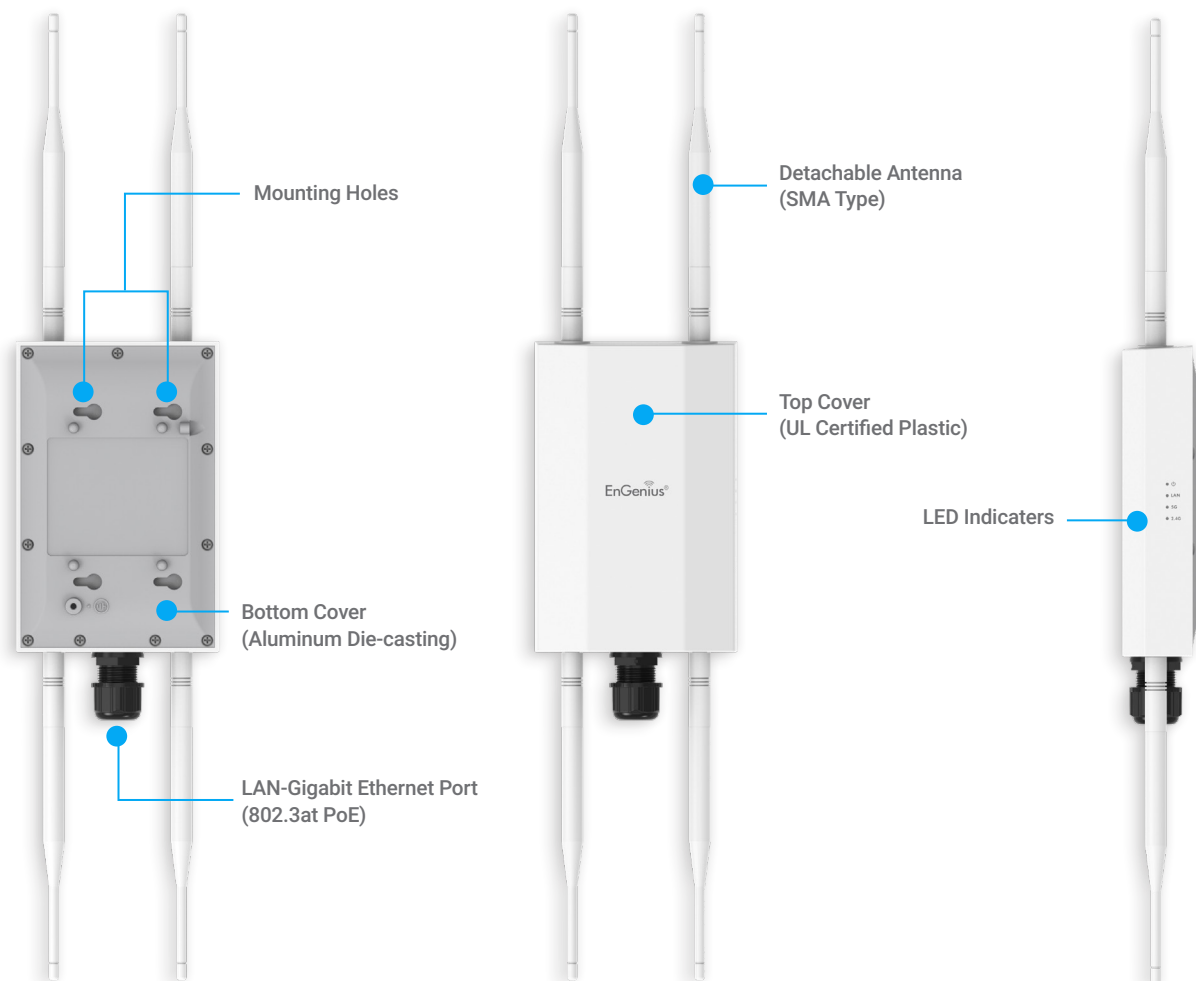
Specifications, Antenna Patterns, and Product Views

EnStation5-AC Specifications

Radio Specification

Wi-Fi Standards
802.11a/b/g/n/ac Wave 2

Tx Power (Aggregated)
2.4GHz: -
5GHz: Max. 26dBm*

Data Rate
802.11b: -
802.11a/g: 6, 9, 12, 18, 36, 48, 54Mbps
802.11n: 6.5 to 300Mbps (MCS0 to MCS15, HT20 to HT40)
802.11ac: 6.5 to 867Mbps (MCS0 to MCS9, NSS=1 to 2, VHT20 to VHT80)
802.11ax (2.4GHz): -
802.11ax (5GHz): -

SU-MIMO Capability
2.4GHz: 1x1 (management radio)
5GHz: 2x2

MU-MIMO Capability
2.4GHz: -
5GHz: 2x2

Modulation Type
802.11b: -
802.11a/g/n/ac: BPSK,QPSK, 16-QAM, 64-QAM, 256-QAM
802.11ax: -

Support frequency
2400-2483.5MHz, 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz*

Tx Beamforming
Yes

Antenna Specification

2.4GHz
-

5GHz
19dBi

Physical Interfaces

Networking Ethernet Port
2 x 10/100/1000 BASE-T

DC-Input
-

Reset Button
Yes, proceed reset and reboot when pushing this button on the device or included EPA2406GR PoE Adapter

Power Source and Consumption

Power over Ethernet (PoE)
Proprietary 24V

DC-Input
-

Power Consumption
PoE: Max. 8.93W

Mechanical Specification

Dimensions
Φ190 x 38 mm

Weight
460 g

Environmental Specification

Operating Temperature
-20 to 60 °C

Storage Temperature
-40 to 80 °C

Storage Humidity
0 to 90% non-condensing

IP Rating
IP55

Surge Protection
L-L: 1KV
L-G: 2KV

ESD Protection
Air: 8KV

Mounting Method

Ceiling Mount
-

Wall Mount
Yes

Pole Mount
Yes

Regulatory Compliance and Certification

Regulatory Compliance
FCC, CE, IC, NCC

Safety Compliance
CB, BSMI

Wi-Fi Alliance
-

WEEE
Yes

RoHS
Yes

*The available frequency bands and transmit power is varied by local regulatory.

EnStation5-AC Antenna Patterns
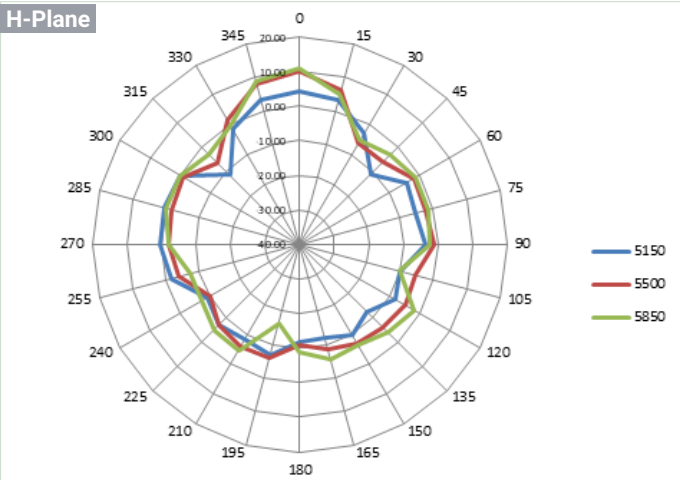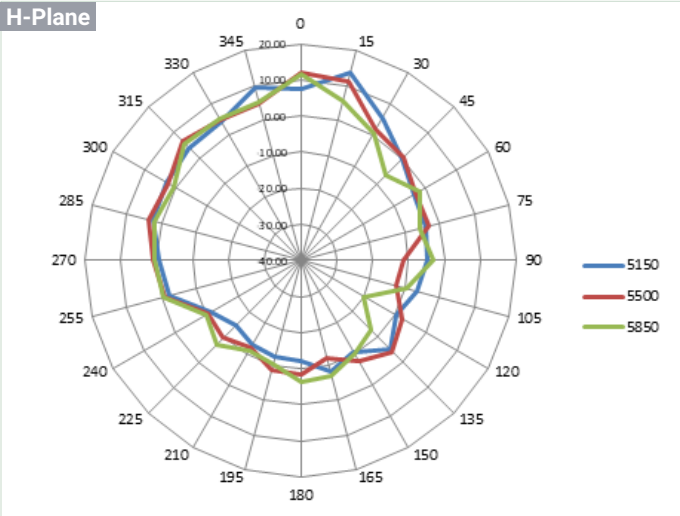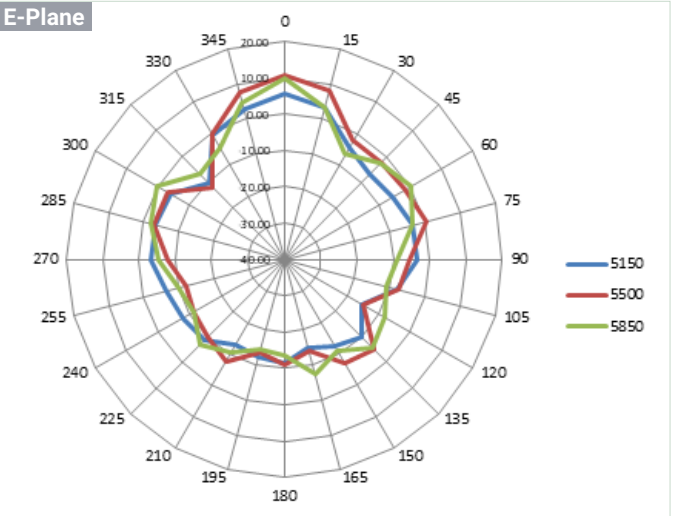
5GHz | Port1

H-Plane
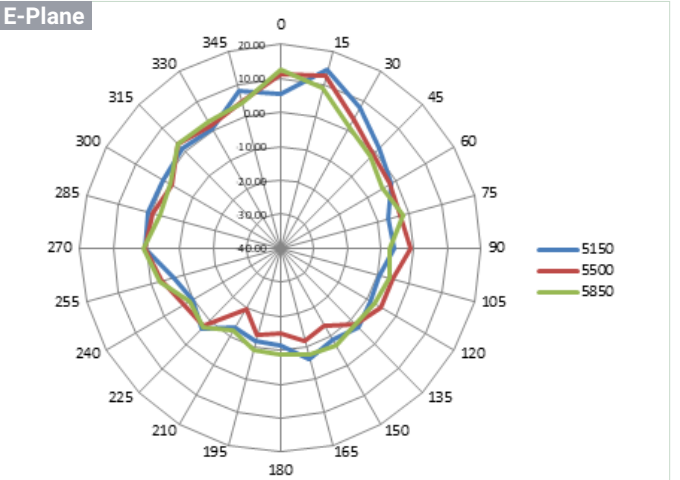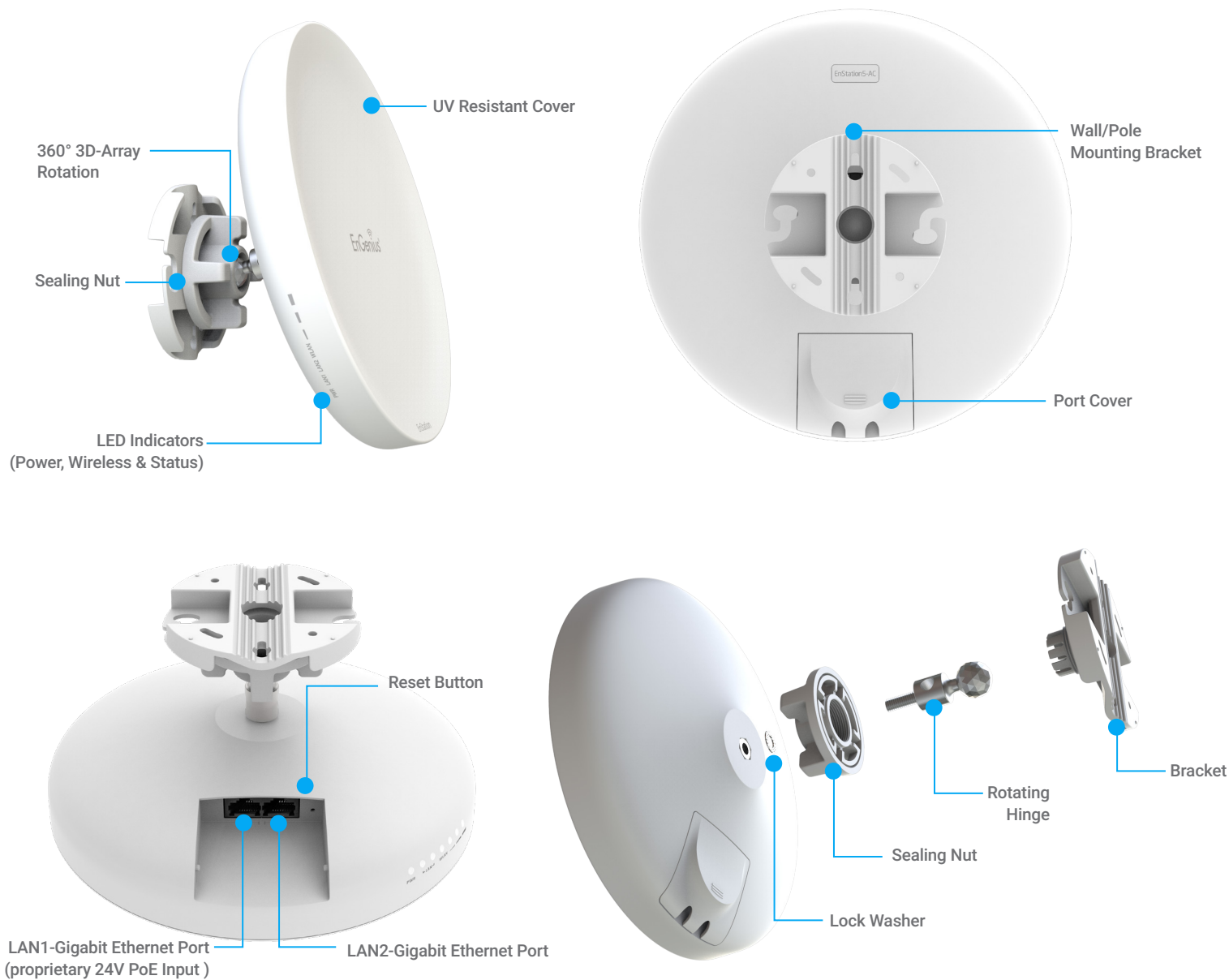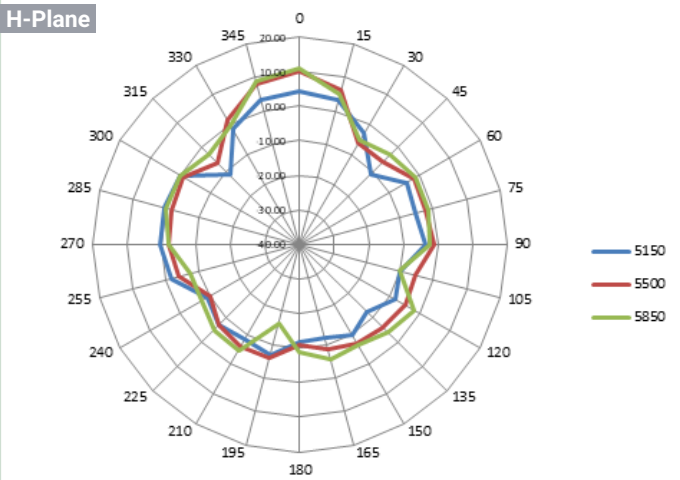

5GHz | Port1

E-Plane

5GHz | Port2

H-Plane

5GHz | Port2

E-Plane

EnStation5-AC Product Views

UV Resistant Cover

360° 3D-Array Rotation

Sealing Nut

LED Indicators
(Power, Wireless & Status)

Wall/Pole Mounting Bracket

Port Cover

Reset Button

LAN1-Gigabit Ethernet Port
(proprietary 24V PoE Input)

LAN2-Gigabit Ethernet Port

Bracket

Rotating Hinge

Sealing Nut

Lock Washer

Specifications, Antenna Patterns, and Product Views

EnStationAC Specifications

Radio Specification

Wi-Fi Standards
802.11a/b/g/n/ac Wave 2

Tx Power (Aggregated)
2.4GHz: -
5GHz: Max. 26dBm*

Data Rate
802.11b: -
802.11a/g: 6, 9, 12, 18, 36, 48, 54Mbps
802.11n: 6.5 to 300Mbps (MCS0 to MCS15, HT20 to HT40)
802.11ac: 6.5 to 867Mbps (MCS0 to MCS9, NSS=1 to 2, VHT20 to VHT80)
802.11ax (2.4GHz): -
802.11ax (5GHz): -

SU-MIMO Capability
2.4GHz: 1x1 (management radio)
5GHz: 2x2

MU-MIMO Capability
2.4GHz: -
5GHz: 2x2

Modulation Type
802.11b: -
802.11a/g/n/ac: BPSK,QPSK, 16-QAM, 64-QAM, 256-QAM
802.11ax: -

Support frequency
2400-2483.5MHz, 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz*

Tx Beamforming
Yes

Antenna Specification

2.4GHz
-

5GHz
Directional 19dBi

Physical Interfaces

Networking Ethernet Port
2 x 10/100/1000 BASE-T

DC-Input
-

Reset Button
Yes, proceed reset and reboot when pushing this button on the device or included EPA5006GR PoE Adapter

Power Source and Consumption

Power over Ethernet (PoE)
PoE: 802.3af/at

DC-Input
-

Power Consumption
PoE: Max. 8.93W ; PoE+PSE: Max. 24.33W

Mechanical Specification

Dimensions
Φ190 x 38 mm

Weight
460 g

Environmental Specification

Operating Temperature
-20 to 60 °C

Storage Temperature
-40 to 80 °C

Storage Humidity
0 to 90% non-condensing

IP Rating
IP55

Surge Protection
L-L: 1KV
L-G: 2KV

ESD Protection
Air: 8KV

Mounting Method

Ceiling Mount
-

Wall Mount
Yes

Pole Mount
Yes

Regulatory Compliance and Certification

Regulatory Compliance
FCC, CE, IC

Safety Compliance
CB

Wi-Fi Alliance
-

WEEE
Yes

RoHS
Yes

*The available frequency bands and transmit power is varied by local regulatory.
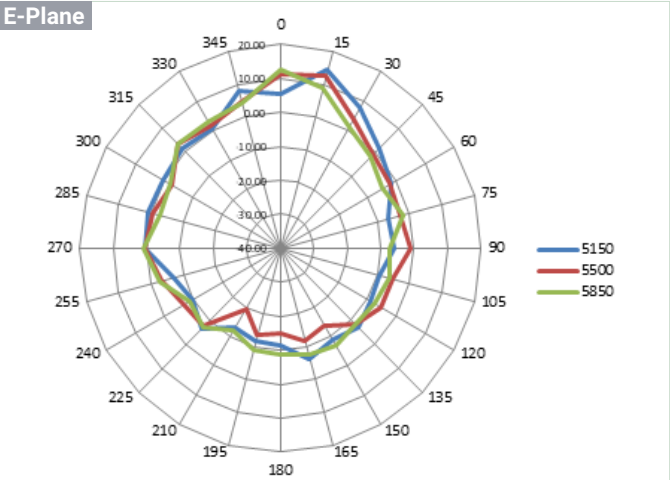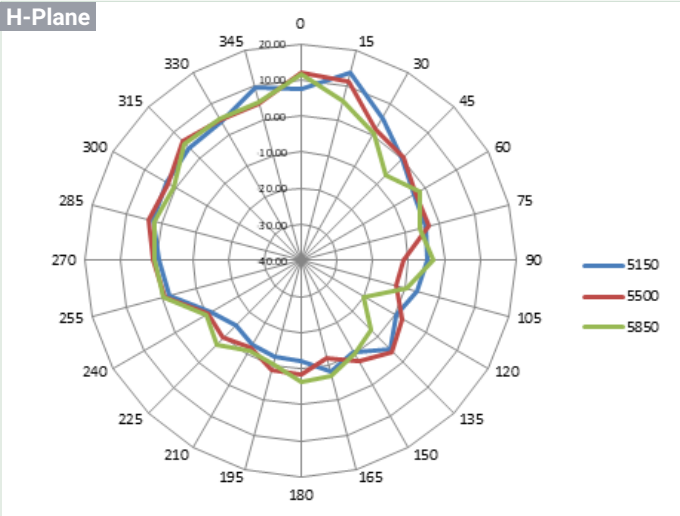
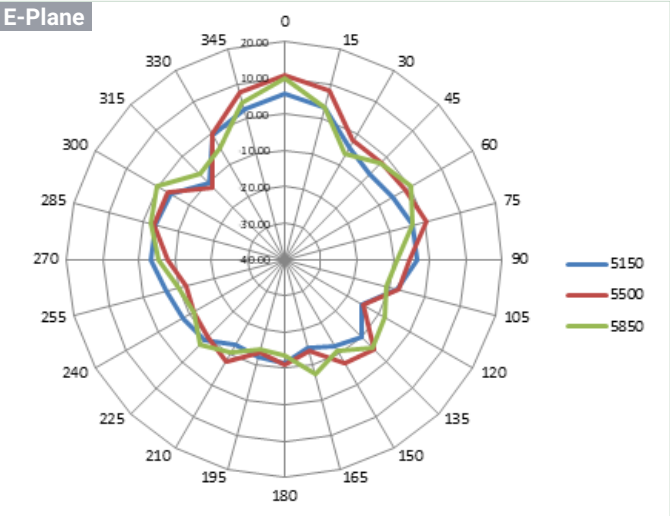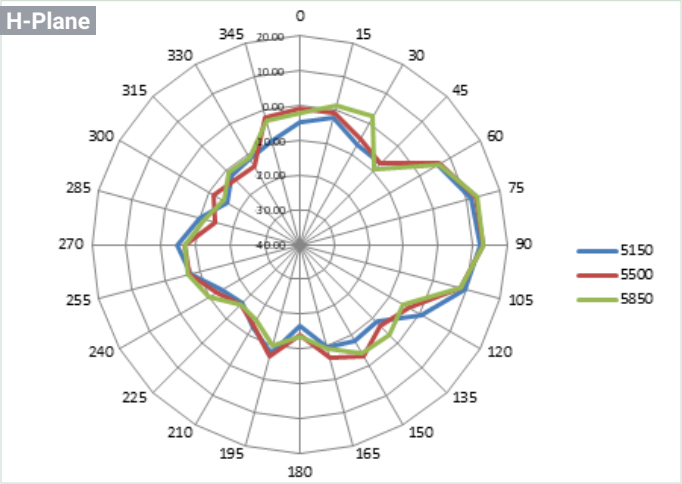# EnStationAC Antenna Patterns

5GHz **Port1**

H-Plane

5GHz **Port1**

E-Plane

5GHz **Port2**

H-Plane

5GHz **Port2**

E-Plane

EnStationAC Product Views

UV Resistant Cover

360° 3D-Array Rotation

Sealing Nut

LED Indicators (Power, Wireless & Status)

Wall/Pole Mounting Bracket

Port Cover

Reset Button

LAN1-Gigabit Ethernet Port (802.3at PoE Input)

LAN2-Gigabit Ethernet Port (802.3af PSE Output)

Bracket

Rotating Hinge

Sealing Nut

Lock Washer
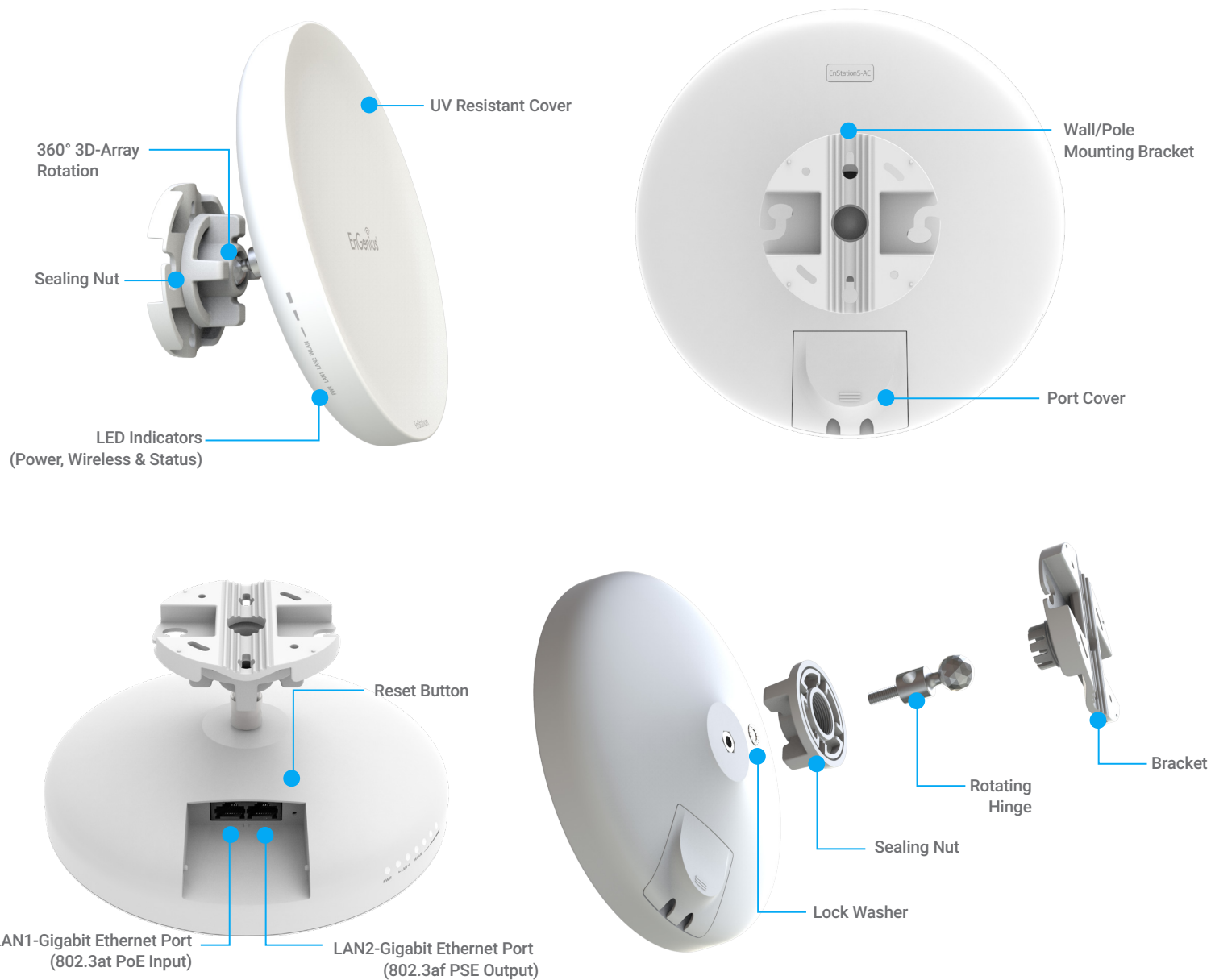
Specifications, Antenna Patterns, and Product Views

ENS500-AC Specifications

Radio Specification

Wi-Fi Standards
802.11a/b/g/n/ac Wave 2

Tx Power (Aggregated)
2.4GHz: -
5GHz: Max. 26dBm*

Data Rate
802.11b: -
802.11a/g: 6, 9, 12, 18, 36, 48, 54Mbps
802.11n: 6.5 to 300Mbps (MCS0 to MCS15, HT20 to HT40)
802.11ac: 6.5 to 867Mbps (MCS0 to MCS9, NSS=1 to 2, VHT20 to VHT80)
802.11ax (2.4GHz): -
802.11ax (5GHz): -

SU-MIMO Capability
2.4GHz: 1x1 (management radio)
5GHz: 2x2

MU-MIMO Capability
2.4GHz: -
5GHz: 2x2

Modulation Type
802.11b: -
802.11a/g/n/ac: BPSK,QPSK, 16-QAM, 64-QAM, 256-QAM
802.11ax: -

Support frequency
2400-2483.5MHz, 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz*

Tx Beamforming
Yes

Antenna Specification

2.4GHz
-

5GHz
Directional 14dBi

Physical Interfaces

Networking Ethernet Port
2 x 10/100/1000 BASE-T

DC-Input
-

Reset Button
Yes, proceed reset and reboot when pushing this button on the device or included EPA2406GR PoE Adapter

Power Source and Consumption

Power over Ethernet (PoE)
Proprietary 24V

DC-Input
-

Power Consumption
PoE: Max. 8.93W

Mechanical Specification

Dimensions
186 x 100 x 29 mm

Weight
504 g

Environmental Specification

Operating Temperature
-20 to 60 °C

Storage Temperature
-40 to 80 °C

Storage Humidity
0 to 90% non-condensing

IP Rating
IP55

Surge Protection
L-L: 1KV
L-G: 2KV

ESD Protection
Air: 8KV

Mounting Method

Ceiling Mount
-

Wall Mount
Yes

Pole Mount
Yes

Regulatory Compliance and Certification

Regulatory Compliance
FCC, CE, IC

Safety Compliance
CB, BSMI

Wi-Fi Alliance
-

WEEE
Yes

RoHS
Yes

*The available frequency bands and transmit power is varied by local regulatory.
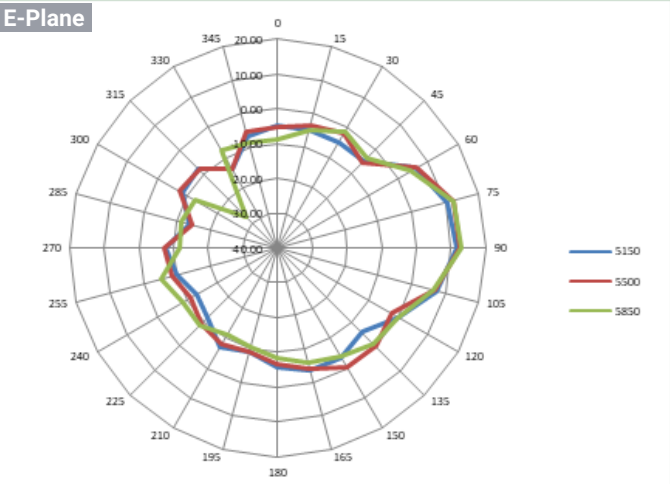
ENS500-AC Antenna Patterns

H-Plane
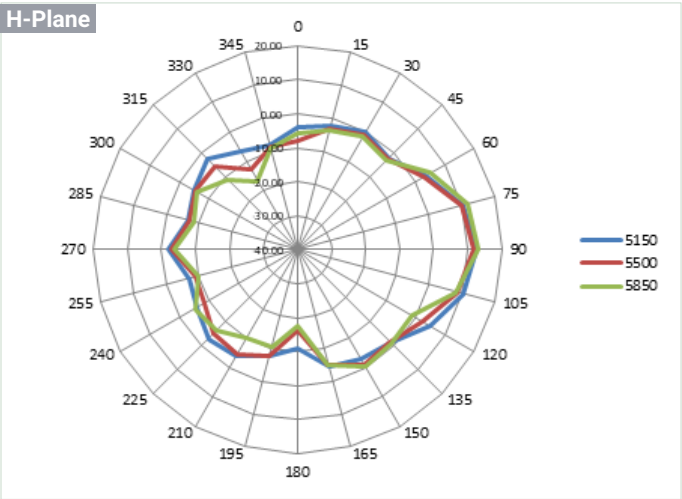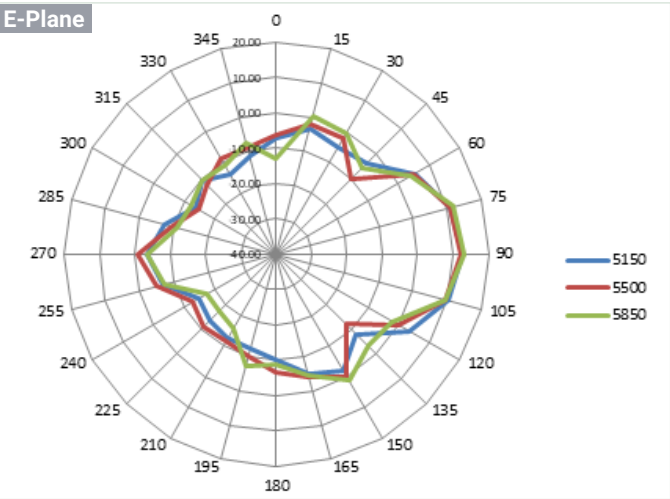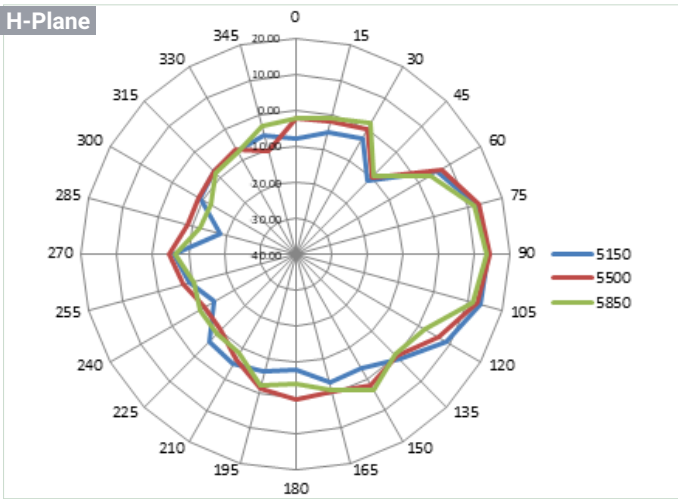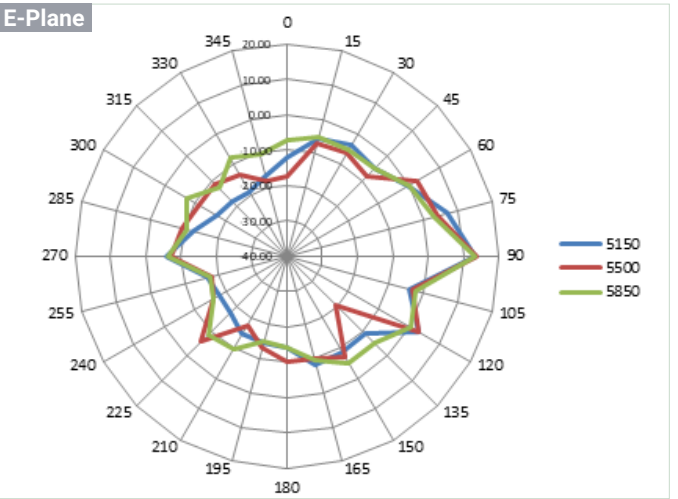
E-Plane

H-Plane

E-Plane

ENS500-AC Product Views

Top Cover
(UL Certified Plastic)

Mounting Holes

LAN2-Gigabit
Ethernet Port

LAN1-Gigabit Ethernet Port
(Proprietary 24V PoE Input)

Bottom Cover
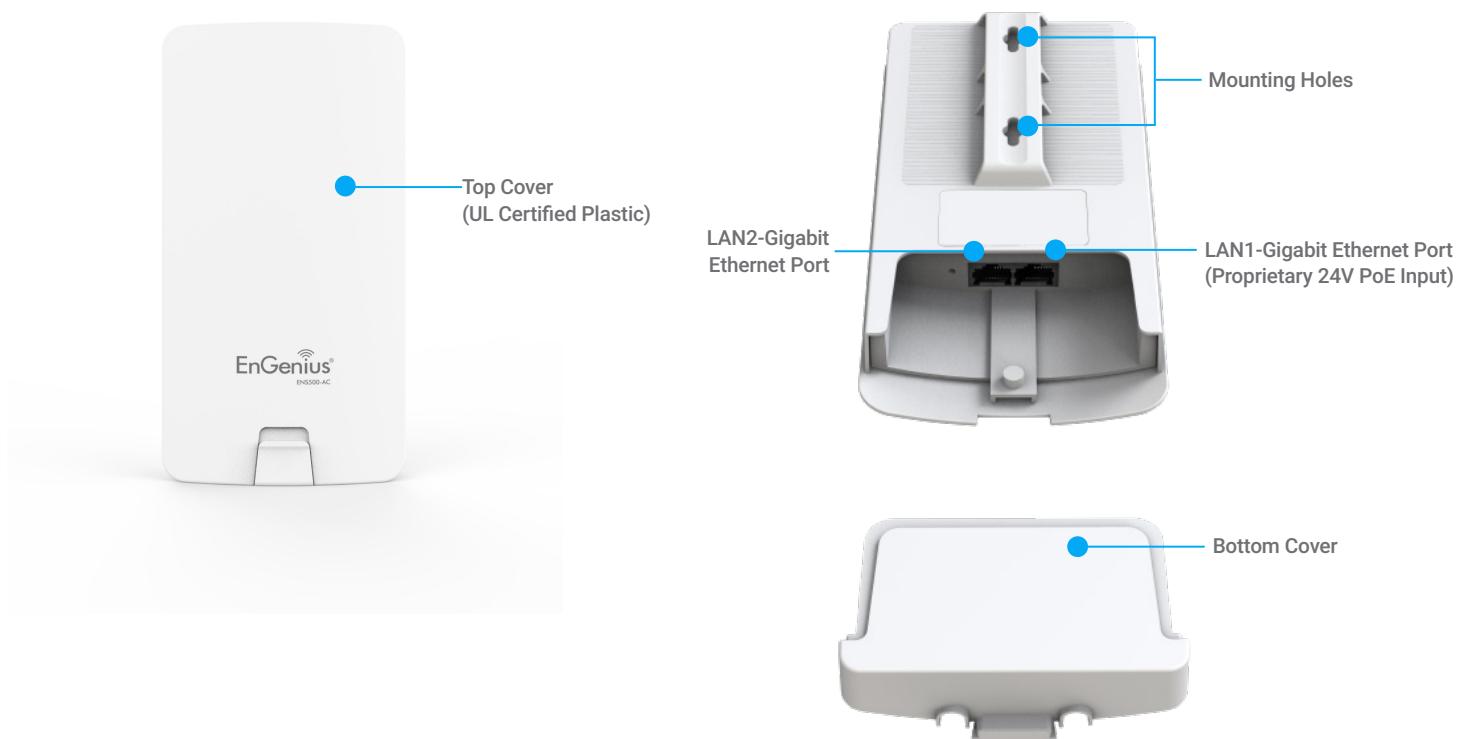
Specifications, Antenna Patterns, and Product Views

ENH500v3 Specifications

Radio Specification

Wi-Fi Standards
802.11a/b/g/n/ac Wave 2

Tx Power (Aggregated)
2.4GHz: -
5GHz: Max. 27dBm*

Data Rate
802.11b: -
802.11a/g: 6, 9, 12, 18, 36, 48, 54Mbps
802.11n: 6.5 to 300Mbps (MCS0 to MCS15, HT20 to HT40)
802.11ac: 6.5 to 867Mbps (MCS0 to MCS9, NSS=1 to 2, VHT20 to VHT80)
802.11ax (2.4GHz): -
802.11ax (5GHz): -

SU-MIMO Capability
2.4GHz: 1x1 (management radio)
5GHz: 2x2

MU-MIMO Capability
2.4GHz: -
5GHz: 2x2

Modulation Type
802.11b: -
802.11a/g/n/ac: BPSK,QPSK, 16-QAM, 64-QAM, 256-QAM
802.11ax: -

Support frequency
2400-2483.5MHz, 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz*

Tx Beamforming
Yes

Antenna Specification

2.4GHz
-

5GHz
16dBi

Physical Interfaces

Networking Ethernet Port
2 x 10/100/1000 BASE-T

DC-Input
-

Reset Button
Yes, proceed reset and reboot when pushing this button on the device or included EPA2406GR PoE Adapter

Power Source and Consumption

Power over Ethernet (PoE)
Proprietary 24V

DC-Input
-

Power Consumption
PoE: Max. 8.93W

Mechanical Specification

Dimensions
260 x 84 x 55 mm

Weight
415.5 g

Environmental Specification

Operating Temperature
-20 to 60 °C

Storage Temperature
-40 to 80 °C

Storage Humidity
0 to 90% non-condensing

IP Rating
IP55

Surge Protection
L-L: 1KV
L-G: 2KV

ESD Protection
Air: 8KV

Mounting Method

Ceiling Mount
-

Wall Mount
Yes

Pole Mount
Yes

Regulatory Compliance and Certification

Regulatory Compliance
FCC, CE, IC

Safety Compliance
CB

Wi-Fi Alliance
-

WEEE
Yes

RoHS
Yes

*The available frequency bands and transmit power is varied by local regulatory.

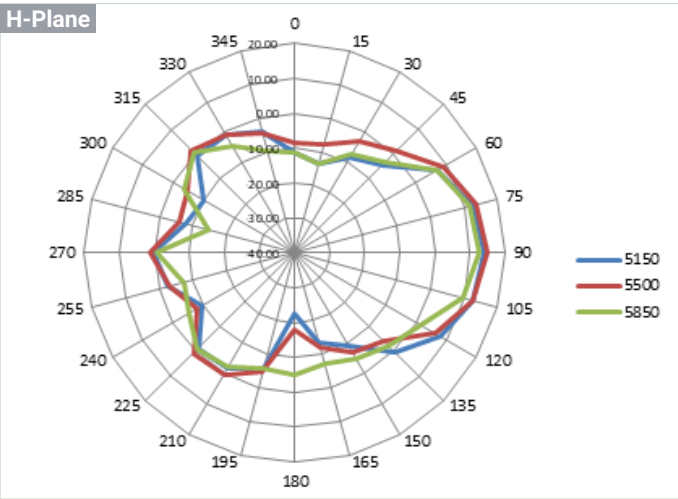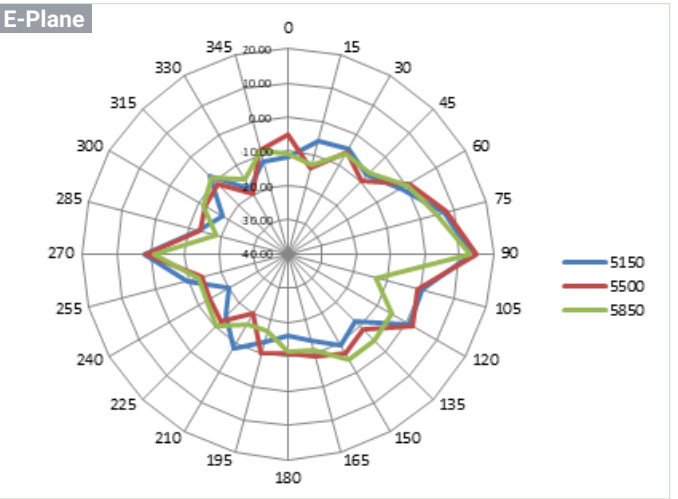# ENH500v3 Antenna Patterns

5GHz | **Port1**

H-Plane

5GHz | **Port1**

E-Plane

5GHz | **Port2**

H-Plane

5GHz | **Port2**

E-Plane

ENH500v3 Product Views

Top Cover
(UL Certified Plastic)

Mounting Holes

Bottom Cover

Reset Button

LAN1-Gigabit Ethernet Port
(Proprietary 24V PoE Input)

LAN2-Gigabit Ethernet Port

Main LAN   Secondary   Reset
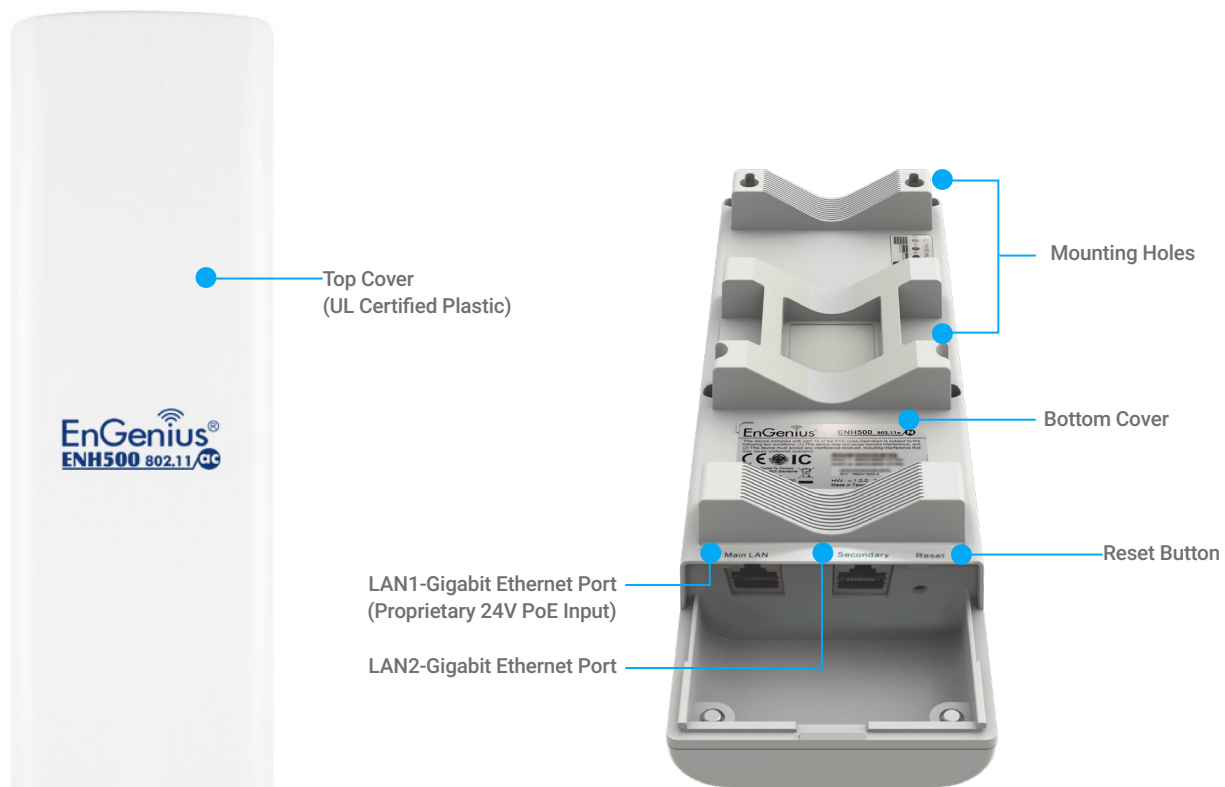
Specifications, Antenna Patterns, and Product Views

ENS202 Specifications

Radio Specification

Wi-Fi Standards
802.11b/g/n

Tx Power (Aggregated)
2.4GHz: Max. 26dBm*
5GHz: -

Data Rate
802.11b: 1, 2, 5.5, 11Mbps
802.11g: 6, 9, 12, 18, 36, 48, 54Mbps
802.11n: 6.5 to 300Mbps (MCS0 to MCS15, HT20 to HT40)
802.11ac: -
802.11ax (2.4GHz): -
802.11ax (5GHz): -

SU-MIMO Capability
2.4GHz: 2x2
5GHz: -

MU-MIMO Capability
2.4GHz: 2x2
5GHz: -

Modulation Type
802.11b: BPSK,QPSK, CCK
802.11g/n: BPSK,QPSK, 16-QAM, 64-QAM
802.11ax: -

Support frequency
2400-2483.5MHz*

Tx Beamforming
-

Antenna Specification

2.4GHz
Directional 8dBi

5GHz
-

Physical Interfaces

Networking Ethernet Port
2 x 10/100 BASE-T

DC-Input
-

Reset Button
Yes, proceed reset and reboot when pushing this button on the device

Power Source and Consumption

Power over Ethernet (PoE)
Proprietary 24V

DC-Input
-

Power Consumption
PoE: Max. 10.486W

Mechanical Specification

Dimensions
186 x 100 x 29 mm

Weight
300 g

Environmental Specification

Operating Temperature
-20 to 70 °C

Storage Temperature
-40 to 80 °C

Storage Humidity
0 to 90% non-condensing

IP Rating
IP55

Surge Protection
L-L: 1KV
L-G: 2KV

ESD Protection
Air: 8KV

Mounting Method

Ceiling Mount
-

Wall Mount
Yes

Pole Mount
Yes

Regulatory Compliance and Certification

Regulatory Compliance
FCC, CE, IC

Safety Compliance
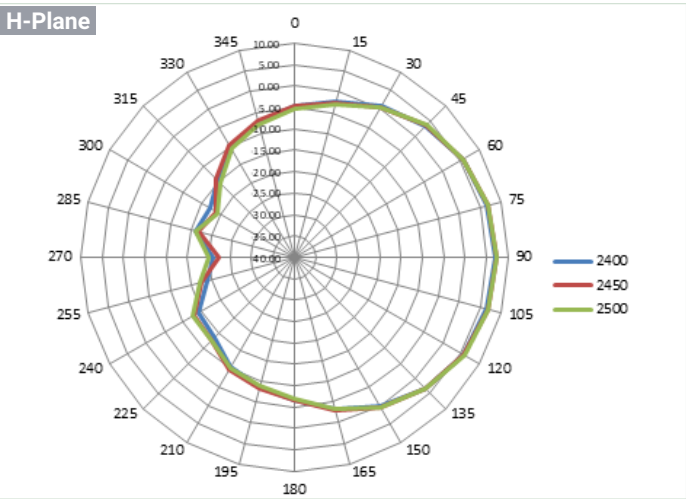CB

Wi-Fi Alliance
-

WEEE
Yes

RoHS
Yes

*The available frequency bands and transmit power is varied by local regulatory.
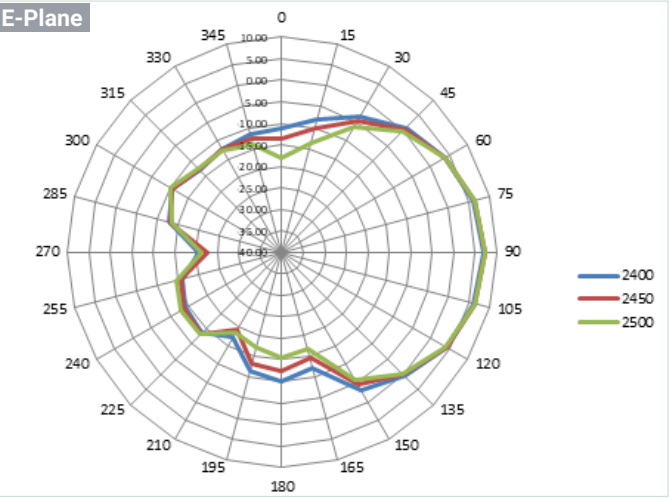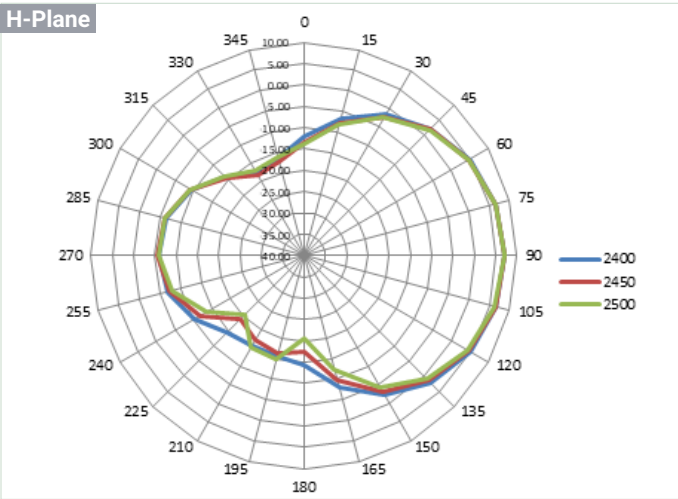
ENS202 Antenna Patterns
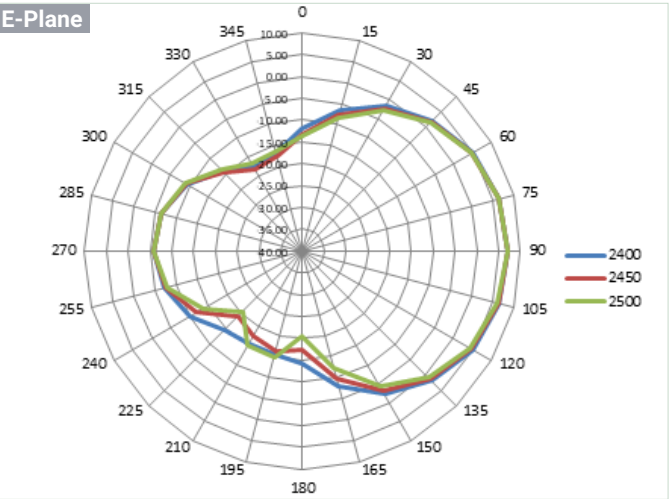
2.4GHz   **Port1**

2.4GHz   **Port1**

2.4GHz   **Port2**

2.4GHz   **Port2**

ENS202 Product Views

Top Cover
(UL Certified Plastic)

Mounting Holes

LAN2-Gigabit
Ethernet Port

LAN1-Gigabit Ethernet Port
(Proprietary 24V PoE Input)

Bottom Cover