



ENS620EXT

# 11ac Wave 2 Outdoor Dual-Band Wireless Access Point

Extend your high-speed wireless coverage to the outdoors with the high-powered **ENS620EXT**, an 11ac Wave 2, MU-MIMO, Dual-Band Wireless AC1300 Outdoor Access Point. Reaching speeds to 867 Mbps on the 5 GHz and 400 Mbps on the 2.4 GHz frequency band, this feature-rich AP leverages advanced Wi-Fi and Beamforming antenna technology, maximizing performance and increasing outdoor or indoor network capacities. The AP is designed to operate in harsh environmental conditions and includes an IP55-rated weatherproof housing.

The ENS620EXT is easy to install in virtually any location with its included Power-over-Ethernet (PoE) injector for quick deployment regardless of its proximity to power outlets. The AP is an ideal wireless solution for indoor and outdoor residential and commercial applications.

## Features

- Wave 2 MU-MIMO Improves Performance & Expands User Capacities
- IP55-Rated Waterproof & Dustproof Housing Withstands Harsh Environments
- 11ac Dual-Radio Speeds to 867 Mbps on 5 GHz; to 400 Mbps on 2.4 GHz
- Beamforming Optimizes Antenna Signal, Reception & Reliability
- GigE PoE-Compatible Port for Easy Placement Where Power Outlets are Scarce
- Four (4) External 5dbi High-Gain, 360° SMA-Type Antennas
- Combine GigE Ports via Link Aggregation for Maximum AP Bandwidth Capacity
- Band Steering Optimizes Network Traffic Flow ; Fast Roaming Secures Seamless Connections
- Flexible Operation Modes: AP, Client Bridge or WDS
- Quickly View, Monitor & Reconfigure APs Locally or Remotely with EZ Controller™ Software

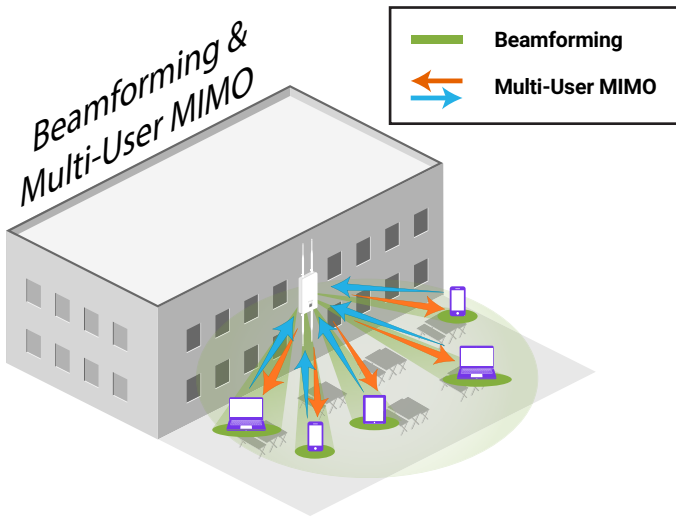
## Ideal for:

- Restaurants & Cafes
- Outdoor Living Areas
- Retail Complexes
- Resort Properties
- Campgrounds & RV Parks
- Marinas & Docks
- Trucking & Transportation Centers
- Golf Courses & Regional Parks
- Ranches & Farms
- Warehouse Facilities



## Higher Speeds for Multi-User Support

The ENS620EXT offers the next generation of 11ac Wave 2 speed and performance for wireless access points by increasing speeds and capacities. Support the newest 11ac Wave 2 Multi-User MIMO (MU-MIMO) smartphones, laptops, and other mobile devices with AC1300 network speeds for bandwidth-heavy applications. Multi-MIMO sends multiple streams to several devices simultaneously expanding the total bandwidth and capacity of the network.

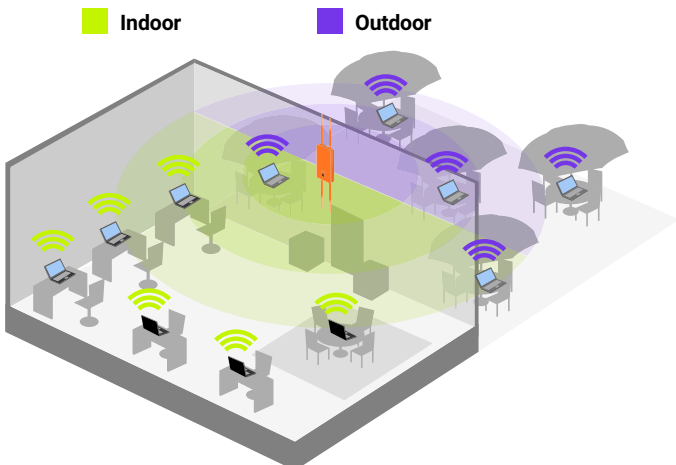


## 11ac Wave 2: Future Proof, Crowd Proof Networks

The ENS620EXT allows administrators to utilize the most advanced Wi-Fi technology standard available while supporting the future of mobile technology for their users. The AP handles crowded outdoor client environments through its two spatial, MU-MIMO streams and Beamforming technology, which targets signals directly to devices, providing optimal signal and reception reliability for users.

## Powerful Connectivity Indoors and Out

The ENS620EXT is powerful enough to provide Wi-Fi connectivity approximately 3,000 square feet while its small footprint makes it flexible for both indoor and outdoor use. Place the AP near an exterior wall indoors and blanket both indoor and outdoor living areas with its wireless signal.



## Exceptional Performance in Harsh Outdoor Climates

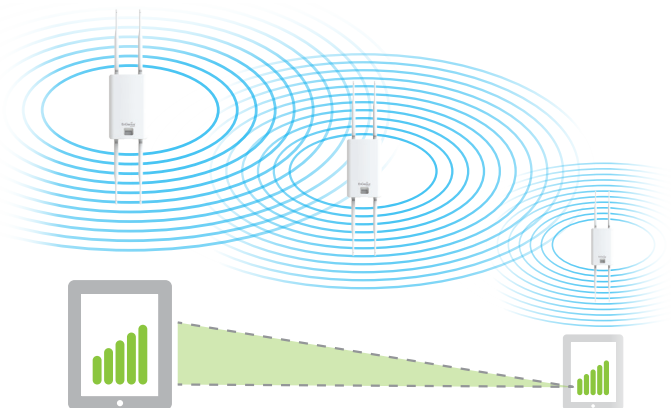
Designed for peak performance in harsh climates, the ENS620EXT features an IP55-rated weatherproof and dustproof enclosure ensuring it can withstand harsh outdoor and indoor environments where the temperature is a factor.



## Fast Roaming & Secure Guest Network Features Improve the Customer Experience

Configure multiple APs for Fast Roaming (802.11r & 802.11k); ensuring client authentication occurs seamlessly before client devices move to the next AP, providing continuous connectivity for devices in motion with fast, secure roaming.

Establish Guest Networks to limit Internet resources for visitors while securing the network from sophisticated Trojans and malware that can use guest's mobile devices to attack the network.



## Product Specifications

<b>Technical Specifications</b>	<b>Tx Beamforming (TxBF)</b>	Band Steering
<b>Standards</b>		RSSI Threshold
IEEE 802.11b/g/n on 2.4 GHz	<b>Radio Chains/Spatial Stream</b>	Traffic Shaping
IEEE802.11a/n/ac on 5 GHz	2x2:2	Save Configuration as Default
		Auto-Transmit Power
<b>Antenna</b>	<b>SU-MIMO</b>	Auto-Channel Selection
Four (4) External 5 dBi Dual-Concurrent Omni-Directional Antennas	Two (2) Spatial Stream SU-MIMO up to 1267 Mbps to a single client	Site Survey
SMA-Type		PMK Caching
	<b>MU-MIMO</b>	PMK Caching
<b>Physical Interface</b>	Two (2) Spatial Stream MU-MIMO up to 1267 Mbps to two (2) MU-MIMO capable wireless devices simultaneously	<b>Distance Control (ACK Timeout)</b>
2 x 10/100/1000 Gigabit Ethernet Ports (Link Aggregation achieves 2 Gbps Throughput)		Multicast Supported
1 x Reset Button	<b>Supported Data Rates (Mbps):</b>	Fast Roaming (802.11k & 802.11r)
	2.4 GHz: Max 400	Email Alerts
<b>LED Indicators</b>	5 GHz: Max 867	Wi-Fi Scheduler
1 x Power	802.11b: 1, 2, 5.5, 11	Client Traffic Status
1 x LAN 1	802.11a/g: 6, 9, 12, 18, 36, 48, 54	Guest Network
1 x LAN 2	802.11n: 6.5 to 400 Mbps (MCS0 to MCS15)	RADIUS Accounting (802.1x)
1 x 2.4 GHz	802.11ac: 6.5 to 867 Mbps (MCS0 to MCS9, NSS = 1 to 2)	Power Save Mode (U-APSD Support)
1 x 5 GHz		CLI Support
<b>Power Source</b>	<b>Supported Radio Technologies</b>	<b>SNMP</b>
Power-over-Ethernet: Proprietary 24V PoE	802.11b: Direct-Sequence Spread Spectrum (DSSS)	v1, v2c, v3
IEEE 802.11e Compliant Source	802.11a/g/n/ac: Orthogonal Frequency-Division Multiplexing (OFDM)	<b>MIB</b>
Active Ethernet (PoE)	802.11n/ac: 2x2 MIMO with 2 Streams	I/II, Private MIB
<b>Maximum Power Consumption</b>	<b>Channelization</b>	<b>Wireless Security</b>
15W	802.11ac supports very high throughput (VHT)—VHT 20/40/80 MHz	WEP Encryption 64/128/152 bit
<b>Surge Protection</b>	802.11n supports high throughput (HT)—HT 20/40 MHz	WPA/WPA2 Enterprise (WPA-EAP using TKIP or AES)
2KV	802.11n supports very high throughput (VHT) under the 2.4 GHz radio—VHT (256-QAM)	Hide SSID in Beacons
<b>ESD Protection</b>	802.11n/ac packet aggregation: AMPDU, ASPDU	MAC Address Filtering, Up to 64 MACs per SSID
Contact: 4KV	<b>Supported Modulation</b>	Wireless STA (Client) Connected List
Air: 8 KV	802.11b: BPSK, QPSK, CCK	Https
<b>Wireless &amp; Radio Specifications</b>	802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM	SSH
Operating Frequency	802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM	Client Isolation
Dual-Radio Concurrent 2.4 GHz & 5 GHz	<b>Management</b>	<b>Environment &amp; Physical</b>
<b>Operation Modes</b>	Multiple BSSID	Temperature Range
Access Point Mode (AP mode)	Supports 16 SSIDs (8 SSIDs per band)	Operating: -4°~140°F/-20°C~60°C
Client Bridge Mode (CB Mode)	<b>VLAN Tagging</b>	Storage: -22F°~176°F/-30°C~80°C
WDS: WDS AP, WDS Bridge, WDS Station	Supports 802.1q SSID-to-VLAN Tagging	<b>Humidity (non-condensing)</b>
<b>Frequency Radio</b>	Cross-Band VLAN Pass-Through	Operating: 90% or less
2.4 GHz: 2400 MHz ~ 2835 MHz	Management VLAN	Storage: 90% or less
5 GHz: 5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz, 5725 MHz ~ 5850 MHz	<b>QoS (Quality of Service)</b>	<b>Weatherproof</b>
<b>Transmit Power</b>	Complaint with IEEE 802.11e Standard	IP55-Rated Enclosure
2.4 GHz: 27 dBm		<b>Dimensions &amp; Weights</b>
5 GHz: 27 dBm		ENS620EXT Device
		Weight: 1.11 lbs (504 g)
		Width: 7.54" (191.6 mm)
		Length: 4.49" (114.3 mm)
		Height: 1.88" (47.7 mm)

## Product Specifications continued

### Package Contents

ENS620EXT Outdoor Access Point  
PoE Adapter (EPA2410GP)  
Pole Mounting Brackets  
Wall-Mount Screw Set  
RJ-45 Ethernet Cable  
Quick Installation Guide

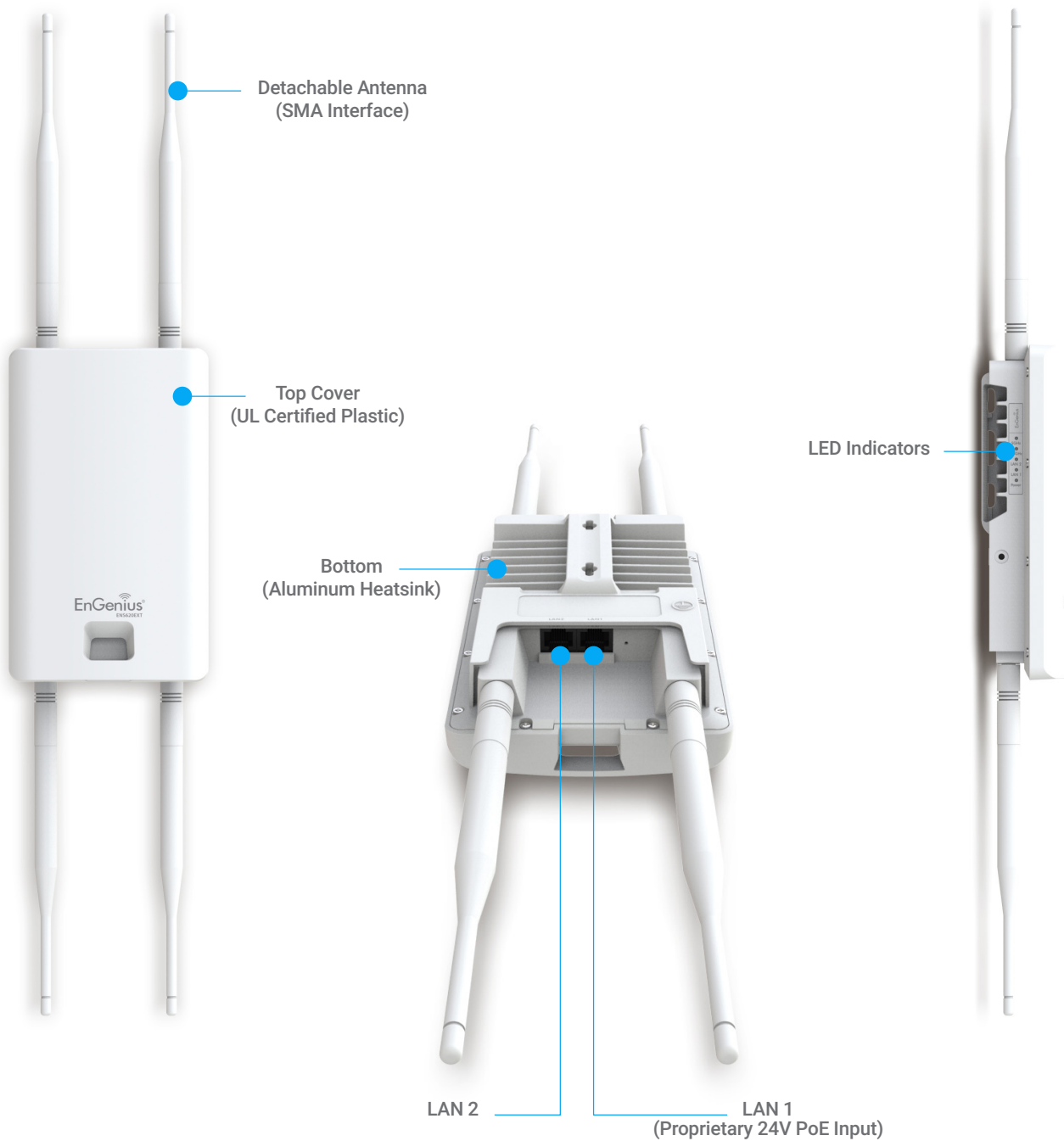
### Certifications

FCC, CE

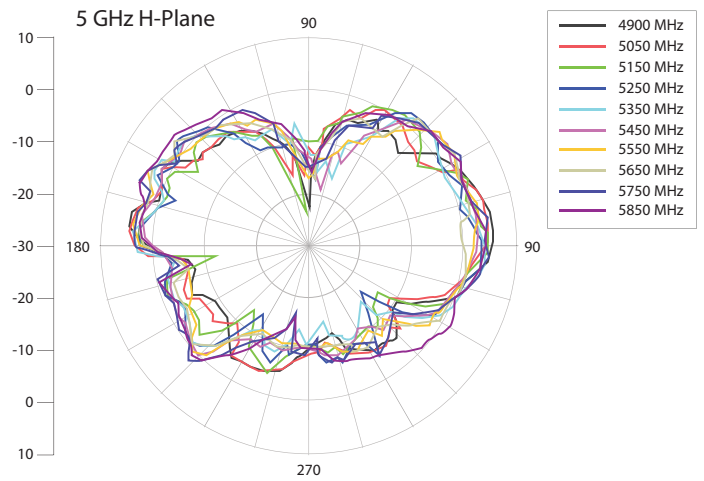
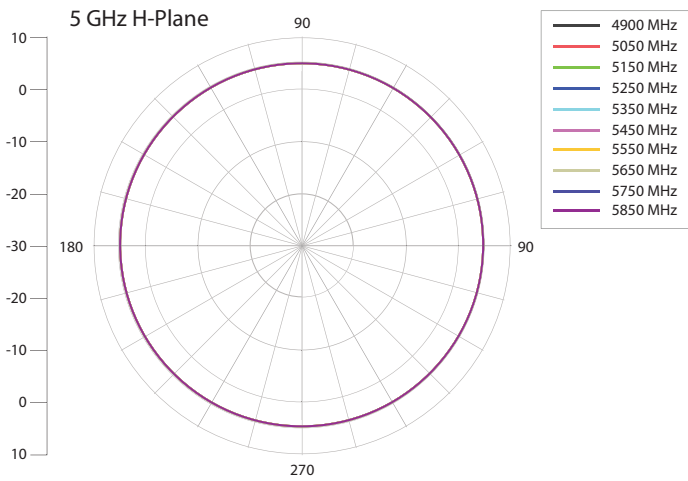
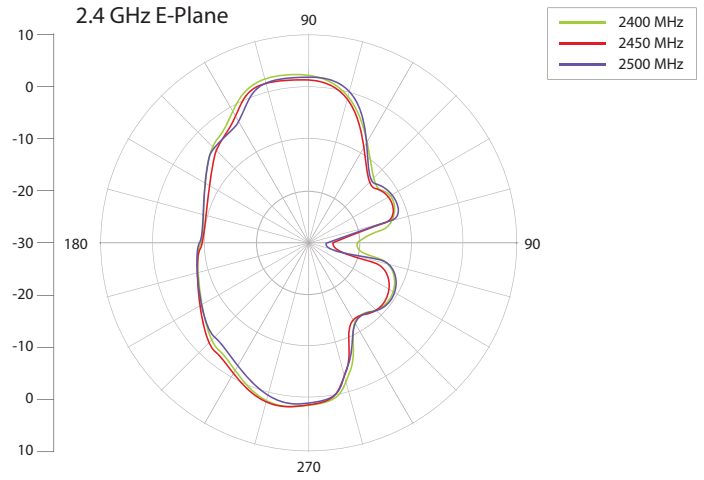
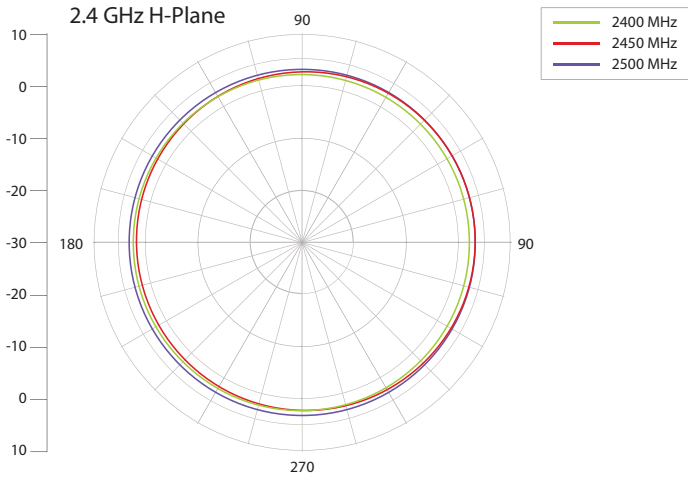
### Warranty:

1 Year

## ENS620EXT Outdoor Access Point



## Antenna Radiation Patterns



Maximum data rates are based on IEEE 802.11 standards. Actual throughput and range may vary depending on distance between devices or traffic and bandwidth load in the network. Features and specifications subject to change without notice. Trademarks and registered trademarks are the property of their respective owners. For United States of America: Copyright ©2016 EnGenius Technologies, Inc. All rights reserved.

EnGenius Technologies | 1580 Scenic Ave. Costa Mesa, CA 92626

Email: [partners@enginustech.com](mailto:partners@enginustech.com) | Phone: 888-735-7888 | Website: [enginustech.com](http://enginustech.com)

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