



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

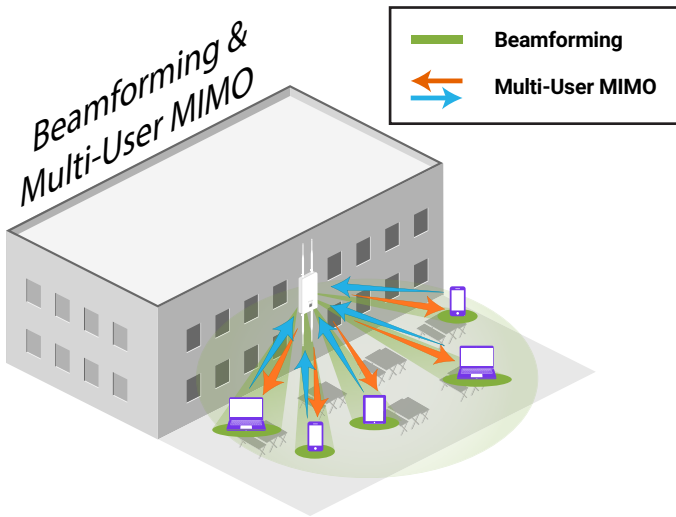
## Ideal for:

- 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.

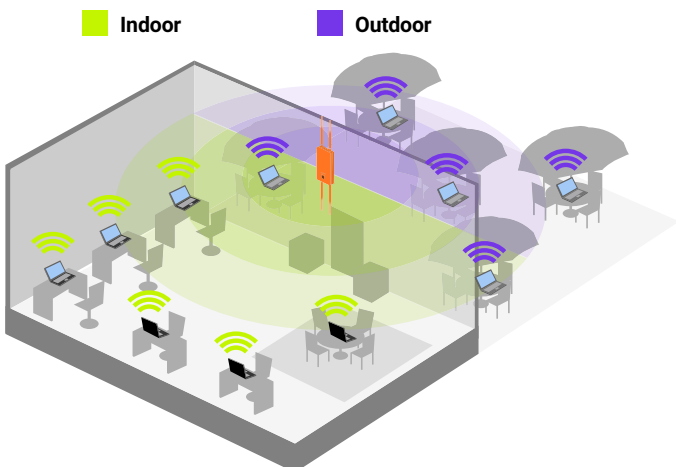


## 11ac Wave 2: Future Proof, Crowd Proof Networks

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

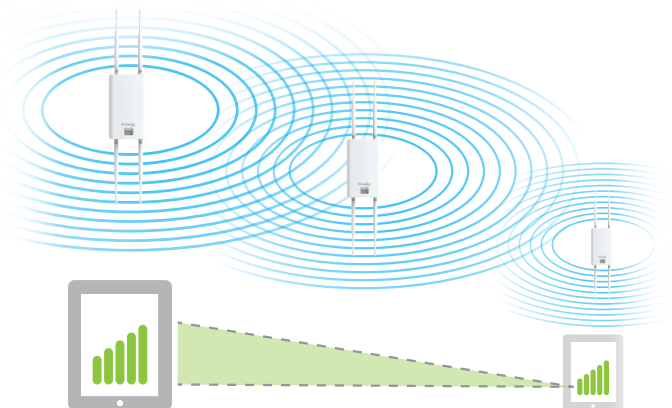
Designed for peak performance in harsh climates, the ENS620EXT features an IP55-rated weatherproof and dustproof enclosure ensuring it can withstand harsh outdoor and indoor environments where the temperature is a factor.



## 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>Standards</b>
IEEE 802.11b/g/n on 2.4 GHz
IEEE802.11a/n/ac on 5 GHz
<b>Antenna</b>
Four (4) External 5 dBi Dual-Concurrent Omni-Directional Antennas
SMA-Type
<b>Physical Interface</b>
2 x 10/100/1000 Gigabit Ethernet Ports (Link Aggregation achieves 2 Gbps Throughput)
1 x Reset Button
<b>LED Indicators</b>
1 x Power
1 x LAN 1
1 x LAN 2
1 x 2.4 GHz
1 x 5 GHz
<b>Power Source</b>
Power-over-Ethernet: Proprietary 24V PoE
IEEE 802.11e Compliant Source
Active Ethernet (PoE)
<b>Maximum Power Consumption</b>
15W
<b>Surge Protection</b>
2KV
<b>ESD Protection</b>
Contact: 4KV
Air: 8 KV
<b>Wireless &amp; Radio Specifications</b>
Operating Frequency
Dual-Radio Concurrent 2.4 GHz & 5 GHz
<b>Operation Modes</b>
Access Point Mode (AP mode)
Client Bridge Mode (CB Mode)
WDS: WDS AP, WDS Bridge, WDS Station
<b>Frequency Radio</b>
2.4 GHz: 2400 MHz ~ 2835 MHz
5 GHz: 5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz, 5725 MHz ~ 5850 MHz
<b>Transmit Power</b>
2.4 GHz: 27 dBm
5 GHz: 27 dBm

<b>Tx Beamforming (TxBF)</b>
<b>Radio Chains/Spatial Stream</b>
2x2:2
<b>SU-MIMO</b>
Two (2) Spatial Stream SU-MIMO up to 1267 Mbps to a single client
<b>MU-MIMO</b>
Two (2) Spatial Stream MU-MIMO up to 1267 Mbps to two (2) MU-MIMO capable wireless devices simultaneously
<b>Supported Data Rates (Mbps):</b>
2.4 GHz: Max 400
5 GHz: Max 867
802.11b: 1, 2, 5.5, 11
802.11a/g: 6, 9, 12, 18, 36, 48, 54
802.11n: 6.5 to 400 Mbps (MCS0 to MCS15)
802.11ac: 6.5 to 867 Mbps (MCS0 to MCS9, NSS = 1 to 2)
<b>Supported Radio Technologies</b>
802.11b: Direct-Sequence Spread Spectrum (DSSS)
802.11a/g/n/ac: Orthogonal Frequency-Division Multiplexing (OFDM)
802.11n/ac: 2x2 MIMO with 2 Streams
<b>Channelization</b>
802.11ac supports very high throughput (VHT)—VHT 20/40/80 MHz
802.11n supports high throughput (HT)—HT 20/40 MHz
802.11n supports very high throughput (VHT) under the 2.4 GHz radio—VHT (256-QAM)
802.11n/ac packet aggregation: AMPDU, ASPDU
<b>Supported Modulation</b>
802.11b: BPSK, QPSK, CCK
802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM
802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
<b>Management</b>
Multiple BSSID
Supports 16 SSIDs (8 SSIDs per band)
<b>VLAN Tagging</b>
Supports 802.1q SSID-to-VLAN Tagging
Cross-Band VLAN Pass-Through
Management VLAN
<b>QoS (Quality of Service)</b>
Complaint with IEEE 802.11e Standard

Band Steering
RSSI Threshold
Traffic Shaping
Save Configuration as Default
Auto-Transmit Power
Auto-Channel Selection
Site Survey
PMK Caching
PMK Caching
<b>Distance Control (ACK Timeout)</b>
Multicast Supported
Fast Roaming (802.11k & 802.11r)
Email Alerts
Wi-Fi Scheduler
Client Traffic Status
Guest Network
RADIUS Accounting (802.1x)
Power Save Mode (U-APSD Support)
CLI Support
<b>SNMP</b>
v1, v2c, v3
<b>MIB</b>
I/II, Private MIB
<b>Wireless Security</b>
WEP Encryption 64/128/152 bit
WPA/WPA2 Enterprise (WPA-EAP using TKIP or AES)
Hide SSID in Beacons
MAC Address Filtering, Up to 64 MACs per SSID
Wireless STA (Client) Connected List
Https
SSH
Client Isolation
<b>Environment &amp; Physical</b>
Temperature Range
Operating: -4°~140°F/-20°C~60°C
Storage: -22F°~176°F/-30°C~80°C
<b>Humidity (non-condensing)</b>
Operating: 90% or less
Storage: 90% or less
<b>Weatherproof</b>
IP55-Rated Enclosure
<b>Dimensions &amp; Weights</b>
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

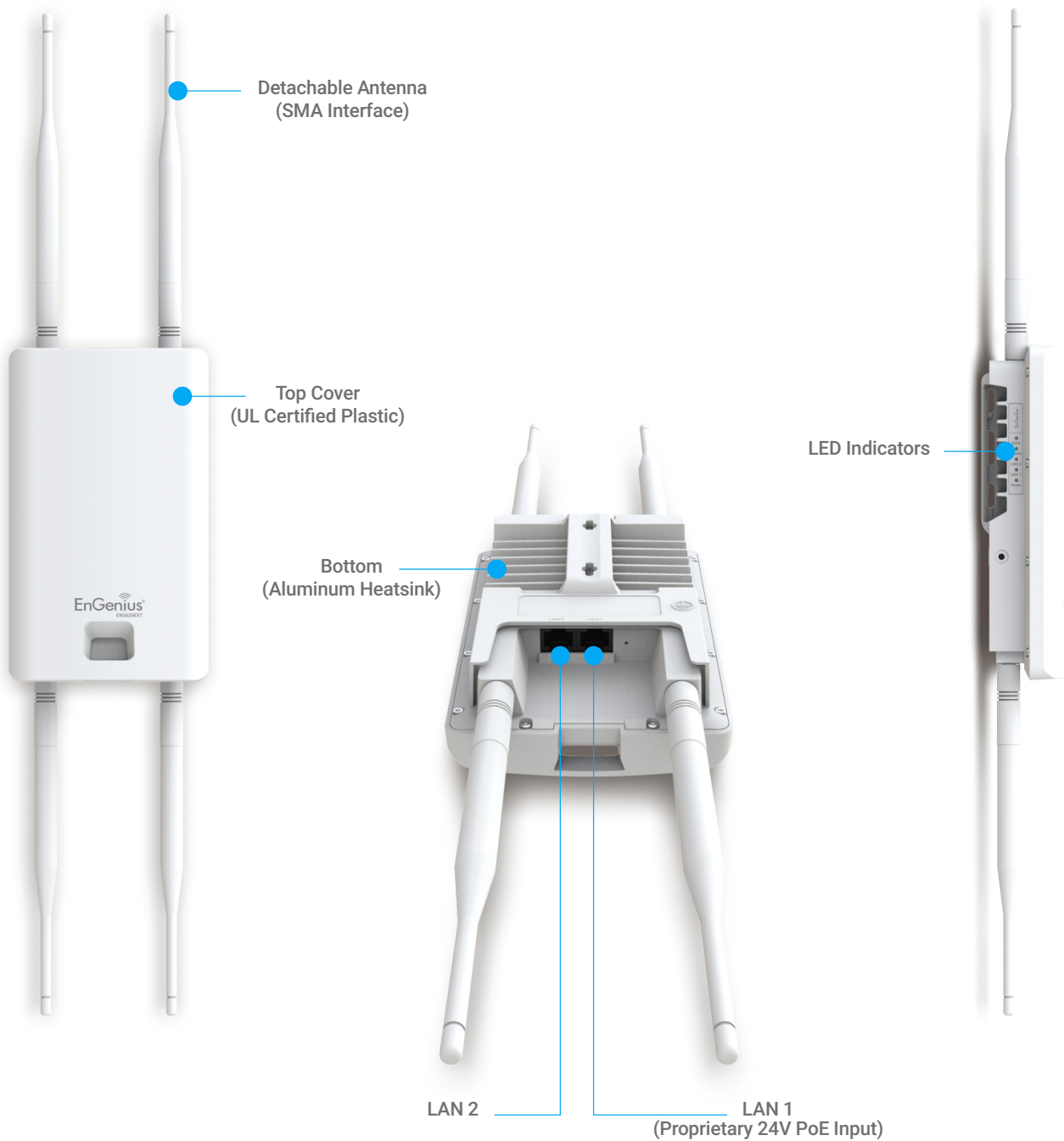
### Certifications

FCC, CE

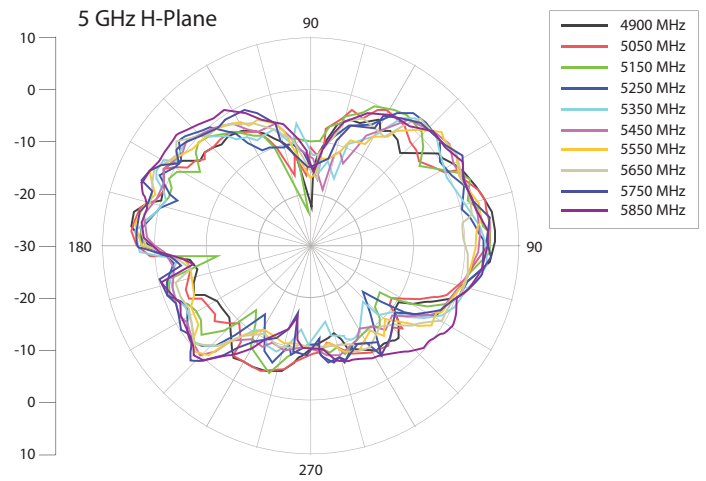
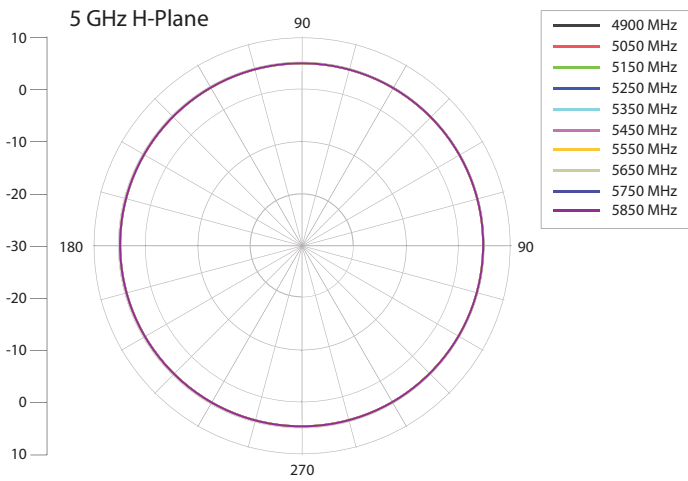
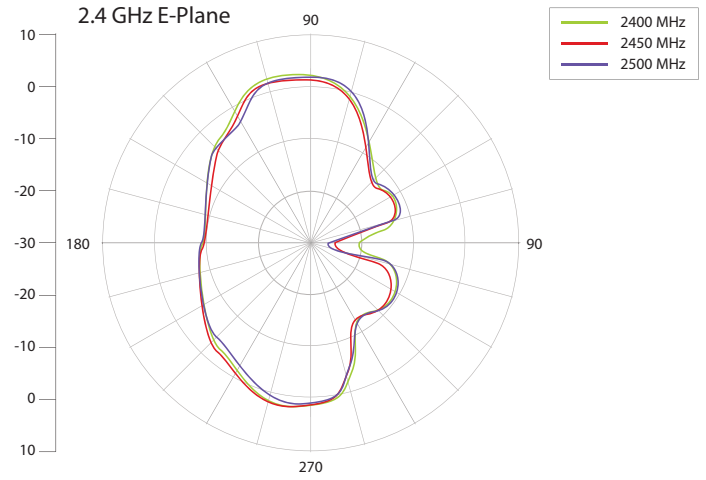
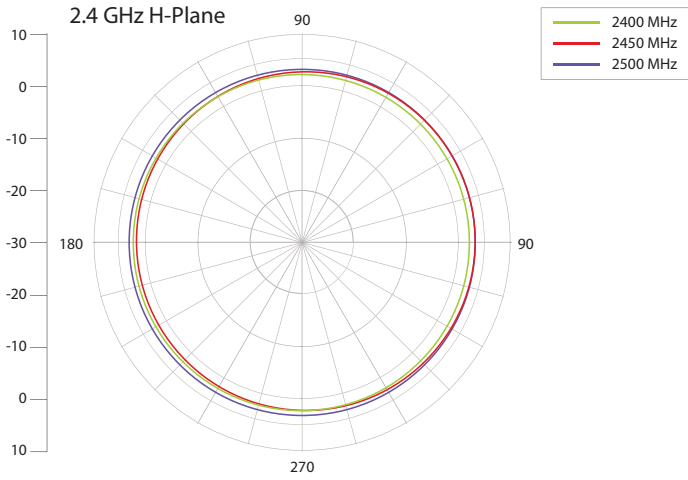
### Warranty:

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.