EnTurbo™ Series Outdoor
Advanced 11ac Wave 2 Access Points & Bridges

Turbocharged Outdoor Wireless

EnTurbo Outdoor Access Points and Bridges turbocharge high bandwidth wireless speed, coverage, and reliability in point-to-point and point-to-multipoint connections. EnTurbo makes powerful, next generation Wave 2, business-class Wi-Fi affordably accessible for small to mid-size businesses and large residences.

Turbocharged Performance

EnTurbo’s powerful onboard Qualcomm® 717 MHz quad-core processors turbocharge wireless performance and efficiency with up to 30 percent faster throughput compared to 11ac Wave 1 3x3 access points. Combined with new 11ac technology, EnTurbo Access Points and Bridges maximize speed and performance, support greater user device capacity and enhanced connection reliability.

Features & Benefits

- Quad-Core CPU, 717 MHz “Turbo Engine”
- 11ac Wave 2 Wireless Speeds to 867 Mbps (5 GHz); to 400 Mbps (2.4 GHz)
- Up to 30% Faster Throughput Over 11ac Wave 1 3x3 APs
- Integrated Directional or Detachable Omni Antennas
- 360-Degree, 3-Axis Pivot Arm Locks for Precise Alignment (EnStation5-AC)
- IP55-Rated Housing Withstands Harsh Environments
- MU-MIMO Improves Performance & Device Capacities
- Beamforming Optimizes Antenna Signal, Reception & Reliability for Clients
- High Power Extends Wi-Fi Outdoors or Building-to-Building
- GigE PoE Port & Adapter Included for Placement Where Power is Limited
- Multi-Operation Modes: Access Point, Client Bridge & WDS
- Suite of Advanced AP Management & Security Features
- Simple Web-Based AP Monitoring & Management Software
- Stand-Alone or Manage in AP Mode via EnGenius Switches or ezMaster™ Software
Next Generation Wireless Technology

Improve wireless performance to outdoor areas and point-to-point by replacing your old wireless with new, advanced 11ac Wave 2 Technology.

Maximized Speed & Performance
Achieve maximized wireless speeds and enhanced performance while eliminating network lag to multiple users outdoors or while bridging wireless networks between buildings. EnTurbo Outdoor reach speeds to 867 Mbps on 5 GHz and to 400 Mbps on the 2.4 GHz frequency band.

Improved Signal Reliability
Beamforming Antenna technology directs and adjusts signal beams ensuring optimal signal and reception reliability for users moving through outdoor coverage areas.

Outdoor Access Points
Provide broad-reaching, fast 11ac Wave 2 access to users in a variety of settings. EnTurbo Outdoor APs are flexible and small enough for use in either indoor or outdoor environments. Achieve high-powered, long-range connections with integrated or detachable antenna options.

Increased User Capacities
Multi-User (MU) MIMO sends dedicated wireless streams to multiple user devices at the same time, improving your network’s efficiency.

Future-Proof Network
Upgrade from slower, older technology while supporting the future needs of IoT and mobile technology. Ensure your network against further upgrades for the next five years.

Create Wi-Fi Hot-Spots
Pair the ENS620EXT and ENS500EXT-AC with EnGenius’ sector antennas to create a powerful wireless base station with 120° sector-wide coverage. Offer high-capacity, long-range, point-to-multipoint coverage and create large Wi-Fi hotspots for:
- Outdoor Shopping Centers
- Warehouses & Arenas
- Campus Quads & Stadiums
- Campgrounds & Marinas
- Outdoor Theaters & Recreational Facilities
- Internet Service Providers
Outdoor Long-Range Bridges

Extend the wireless network in locations where cabling is not possible or practical while eliminating the expense of extended cable runs. Connect a secondary device such as an IP surveillance camera or access point for greater deployment flexibility.

Deliver precise short and long-range point-to-point links in settings such as:
- Between Buildings
- Across Large Campuses & Stadiums
- Over Vast Acreage: Parks, Golf Courses, Ranches
- City Blocks, Parking Lots & Marinas
- In Sizeable Indoor Structures: Distribution Centers & Arenas

EnStation5-AC: Precise, Long-Range Point-to-Point Connectivity

The EnTurbo EnStation5-AC offers high 23 dBm output power and high receive sensitivity. This coupled with its embedded 19 dBi high-gain directional antennas that emit a narrow signal beam, deliver stable connectivity, optimal bandwidth and high-speed data rates over extremely long distances – up to 5 miles in clear, line of sight point-to-point deployments.

Position for Maximum Connectivity

Easily position EnStation5-AC for maximum connectivity with its 360-degree, 3-axis pivoting arm that locks in place to ensure precise alignment between other EnStation5-AC devices.

PoE Supports Flexible Power Options

Connect and power EnTurbo Outdoor APs and Bridges via their dual-PoE Gigabit ports and included PoE Adapter for placement in locations where power outlets are unavailable such as on roofs, poles or other remote areas.

Flexible Operation & Configuration Options

Access Point, Client Bridge, and WDS mode configurations broaden the Outdoor APs and Bridge’s adaptability to your network needs. With multiple operation modes, these flexible devices offer versatility in point-to-point or point-to-multipoint deployments.

Optimal Performance in Harsh Environments

EnTurbo Outdoor APs and Bridges are designed to perform in harsh conditions and feature ruggedized IP55-rated enclosures. Ensure your network operates in extreme outdoor climates and indoor industrial environments where temperature is a factor. EnTurbo is protected from prolonged exposure to sunlight, cold, frost, snow, rain, hail, heat and humidity.
The EnTurbo Outdoor APs and Bridges can operate as standalone devices or as part of a scalable EnGenius Wireless Network Management Solution. Manage EnTurbo APs and Bridges while in AP mode via Neutron Switches or remotely with ezMaster and expand easily as your network needs grow.

Manage Up to 50 EnTurbo APs with EnGenius Managed Switches

Any EnGenius Gigabit Managed Switch can also manage up to 50 EnTurbo APs or Bridges when in AP mode. Through the switch, access all connected EnGenius devices operating in AP mode, as well as a full array of wireless and Layer 2 management tools. Choose between PoE+ and non-PoE switch models with flexible deployment and management options and no AP license or subscription fees.

ezMaster Network Management Software

EnGenius ezMaster Software’s simple, intuitive Web-based interface allows flexible access point monitoring - locally or remotely. Quickly and easily set up, manage, monitor, and troubleshoot multiple APs at the same time. See real-time network performance and monitor AP traffic through ezMaster’s at-a-glance dashboard.

EzMaster provides business-class features, unlimited scalability and centralized management of hundreds of EnTurbo Access Points and EnGenius Switches - locally, remotely or via a cloud-based service, with no licensing or subscription fees.

ezMaster Software Features

- **Centralized Management**
  - Configure, Manage & Monitor
  - Cross-Network AP Management
  - AP Group Configuration

- **Access Point Configuration & Management**
  - 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
  - System Status Monitoring
  - Visual Topology View
  - Wireless Client Monitoring
  - Wireless Coverage View
  - Wireless Traffic & Usage Statistics

- **Management & Maintenance**
  - Bulk Firmware Upgrade
  - Email Alert
  - Kick/Ban Clients
  - One-Click Update
  - Remote Logging
  - Seamless Migration
  - Syslog

System Requirements

- **Recommended environment for managing up to 500 APs**
  - CPU: Intel® Core™ i7 quad-core or above
  - RAM: 4 GB minimum
  - HDD: 500 GB (actual requirement dependent on log size)
  - OS: Microsoft® Windows® 7 or later + VMware® Player 7.0 or compatible virtualization software

- **Recommended environment for managing up to 1,000+ APs**
  - CPU: Intel® Xeon® Processor E3 or above
  - RAM: 4 GB minimum
  - HDD: 500 GB (actual requirement dependent on log size)
  - OS: Microsoft® Windows® 7 or later + VMware® Player 7.0 or compatible virtualization software

Browser Requirements

- Internet Explorer 10 or better
- Firefox 34.0 or better
- Chrome 31.0 or better
- Safari 8.0 or better

Network Topology Requirements

At sites where APs are deployed: A DHCP-enabled network for APs to obtain an IP address
### Access Points

<table>
<thead>
<tr>
<th>Models</th>
<th>ENS620EXT</th>
<th>ENS500EXT-AC</th>
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</thead>
<tbody>
<tr>
<td>Standard</td>
<td>802.11ac Wave 2</td>
<td>802.11ac Wave 2</td>
</tr>
<tr>
<td>Frequency</td>
<td>2.4 &amp; 5 GHz</td>
<td>5 GHz</td>
</tr>
<tr>
<td>Max. Data Rates</td>
<td>400 &amp; 867 Mbps</td>
<td>867 Mbps</td>
</tr>
<tr>
<td>Radio Chains/Streams</td>
<td>2 x 2:2</td>
<td>2 x 2:2</td>
</tr>
<tr>
<td>Transmit Power</td>
<td>27 dBm (Each Band)</td>
<td>23 dBm</td>
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<tr>
<td>Ethernet Ports</td>
<td>2x Gigabit PoE</td>
<td>2x Gigabit PoE</td>
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<tr>
<td>Power-over-Ethernet</td>
<td>24V Propriety PoE</td>
<td>24V Propriety PoE</td>
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<tr>
<td>Power Consumption (Peak)</td>
<td>15W</td>
<td>6.3W</td>
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<tr>
<td>Antennas</td>
<td>4 x 5 dBi Omni-Directional SMA-Type (Detachable)</td>
<td>2 x 5 dBi Omni-Directional SMA-Type (Detachable)</td>
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<tr>
<td>Ingress Protection Rating</td>
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### Bridges

<table>
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<tr>
<th>Models</th>
<th>EnStation5-AC</th>
<th>ENS500-AC</th>
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</thead>
<tbody>
<tr>
<td>Standard</td>
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<td>802.11ac Wave 2</td>
</tr>
<tr>
<td>Frequency</td>
<td>5 GHz</td>
<td>5 GHz</td>
</tr>
<tr>
<td>Max. Data Rates</td>
<td>867 Mbps</td>
<td>867 Mbps</td>
</tr>
<tr>
<td>Streams</td>
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<td>2 x 2:2</td>
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<tr>
<td>Transmit Power</td>
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<tr>
<td>Power-over-Ethernet</td>
<td>24V Propriety PoE</td>
<td>24V Propriety PoE</td>
</tr>
<tr>
<td>Power Consumption (Peak)</td>
<td>6.3W</td>
<td>6.3W</td>
</tr>
<tr>
<td>Antennas</td>
<td>19 dBi Directional (Integrated)</td>
<td>14 dBi Directional (Integrated)</td>
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<tr>
<td>Ingress Protection Rating</td>
<td>55</td>
<td>55</td>
</tr>
</tbody>
</table>
Technical Specifications

Standards

- ENS620EXT
- IEEE 802.11b/g/n on 2.4 GHz
- IEEE802.11a/n/ac on 5 GHz
- ENS500EXT-AC/ENS500-AC/EnStation5-AC
- IEEE802.11a/n/ac on 5 GHz

Processor

- Qualcomm® 717 MHz Quad-Core CPU
- 4x ARM Cortex A7

Antenna

- ENS620EXT
  - 4 x 5 dBi Omni-Directional Detachable (SMA-Type)
- ENS500EXT-AC
  - 2 x 5 dBi Omni-Directional Detachable (SMA-Type)
- ENS500-AC
  - 2 x 14 dBi Directional Integrated
- EnStation5-AC
  - 2 x 19 dBi Directional Integrated

Physical Interface

- 2 x 10/100/1000 Gigabit Ethernet Ports
- (Link Aggregation achieves 2 Gbps Throughput)
- Reset Button

LED Indicators

- ENS620EXT
  - Power
  - LAN 1
  - LAN 2
  - 2.4 GHz
  - 5 GHz
- ENS500EXT-AC/ENS500-AC
  - Power
  - LAN 1
  - LAN 2
  - WLAN
  - Signal
- EnStation5-AC
  - Power
  - WLAN 5 GHz
  - 2 x LAN

Power Source

- Power-over-Ethernet: Proprietary 24V PoE
- IEEE 802.11e Compliant Source
- Active Ethernet (PoE)

Maximum Power Consumption

- ENS620EXT 15W
- ENS500EXT-AC/ENS500-AC/EnStation5-AC 6.9W

Surge Protection

- Line to Line: 1 KV
- Line to Ground: 2 KV

ESD Protection

- Contact: 4 KV
- Air: 8 KV

Wireless & Radio Specifications

Operating Frequency

- ENS620EXT
  - Dual-Radio Concurrent 2.4 GHz & 5 GHz
- ENS500EXT-AC/ENS500-AC/EnStation5-AC
  - 5 GHz

Operation Modes

- Access Point Mode (AP mode)
- Client Bridge Mode (CB Mode)
- WDS: WDS AP, WDS Bridge, WDS Station

Frequency Radio

- ENS620EXT
  - 2.4 GHz: 2400 MHz~2835 MHz
- ENS620EXT/ENS500EXT-AC/ENS500-AC/EnStation5-AC
  - 5 GHz: 5150 MHz~5250 MHz, 5250 MHz~5350 MHz, 5470 MHz~5725 MHz, 5725 MHz~5850 MHz

Transmit Power

- ENS620EXT
  - 2.4 GHz: 27 dBm
  - 5 GHz: 27 dBm
- ENS500EXT-AC/ENS500-AC/EnStation5-AC
  - 5 GHz: 23 dBm

Tx Beamforming (TxBF)

- 2x2

Radio Chains/Spatial Stream

- 2x2

SU-MIMO

- Two (2) Spatial Stream SU-MIMO up to 867 Mbps to individual 2x2 VHT-40 client devices

MU-MIMO

- Two (2) Spatial Stream Multi User (MU) MIMO for up to 867 Mbps to two (2) MU-MIMO capable wireless devices simultaneously

Supported Data Rates (Mbps) continued

- 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)
- ENS500EXT-AC/ENS500-AC/EnStation5-AC
  - 5 GHz: Max 867
  - 802.11a: 6, 9, 12, 18, 24, 36, 48, 54
  - 802.11n: 6.5 to 300 Mbps (MCS0 to MCS15)
  - 802.11ac: 6.5 to 867 Mbps (MCS0 to MCS9, NSS = 1 to 2)

Supported Radio Technologies

- ENS620EXT
  - 80.11b: Direct-Sequence Spread Spectrum (DSSS)
  - 80.11a/g/n/ac: Orthogonal Frequency-Division Multiplexing (OFDM)
- 80.11n/ac: 2x2 MIMO With 2 Streams
- ENS500EXT-AC/ENS500-AC/EnStation5-AC
  - 80.11a/n/ac: Orthogonal Frequency-Division Multiplexing (OFDM)
  - 80.11n/ac: 2x2 MIMO With 2 Streams

Channelization

- ENS620EXT
  - 80.11ac Supports Very High Throughput (VHT)—VHT 20/40/80 MHz
  - 80.11n Supports High Throughput (HT)—HT 20/40 MHz
  - 80.11n Supports Very High Throughput (VHT) Under the 2.4 GHz Radio—VHT (256-QAM)
  - 80.11n/ac Packet Aggregation: AMPDU, ASPDU
- ENS500EXT-AC/ENS500-AC/EnStation5-AC
  - 80.11ac Supports Very High Throughput (VHT)—VHT 20/40/80 MHz
  - 80.11n Supports High Throughput (HT)—HT 20/40 MHz
  - 80.11n/ac Packet Aggregation: AMPDU, ASPDU

Supported Modulation

- ENS620EXT
  - 80.11b: BPSK, QPSK, CCK
  - 80.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM
  - 80.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
- ENS500EXT-AC/ENS500-AC/EnStation5-AC
  - 80.11a: BPSK, QPSK, 16-QAM, 64-QAM
  - 80.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
Technical Specifications

Management
Multiple BSSID
ENS620EXT
Supports 16 SSIDs (8 SSIDs per Band)
ENS500EXT-AC/ENS500-AC/EnStation5-AC
Supports 8 SSIDs

VLAN Tagging
Supports 802.1q SSID-to-VLAN Tagging
Management VLAN

ENS620EXT
Cross-Band VLAN Pass-Through
ENS500EXT-AC/ENS500-AC/EnStation5-AC
VLAN Pass-Through

Spanning Tree
Supports 802.1d Spanning Tree Protocol

QoS (Quality of Service)
Compliant with IEEE 802.11e Standard
WMM

SNMP
v1, v2c, v3

MIB
I/II, Private MIB

Management Features
Deployment Options
Stand-Alone (Individually Managed)
Managed Mode (w/ezMaster/Neutron Series Switch)

Stand-Alone Management Features
Auto Channel Selection
Auto Transmit Power
Wireless STA (Client) Connected List
Guest Network
Fast Roaming (802.11k & 802.11r)
Pre-Authentication (802.11i, 802.11x)
PMK Caching (802.11i)
RSSI Threshold
Traffic Shaping
VLANs for Access Point – Multiple SSIDs
Backup/Restore Settings
Auto Reboot
E-Mail Alert
Site Survey
Save Configuration as Users Default

Control Features
Managed Mode (w/ezMaster/Neutron Switch)
Distance Control (ACK Timeout)

Control Features continued
Multicast Supported
Wi-Fi Scheduler
Client Traffic Status
RADIUS Accounting
Power Save Mode (U-APSD Support)
CLI Support
HTTPS

Wireless Security
WEP Encryption 64/128/152 bit
WPA/WPA2 Enterprise (WPA-EAP using TKIP or AES)
Hide SSID in Beacons
MAC Address Filtering, Up to 32 MACs per SSID
Wireless STA (Client) Connected List
SSH Tunnel
Client Isolation

Wireless Management Features (w/ezMaster & Neutron Switch) (Available in AP Mode)
AP Auto Discovery and Provisioning
AP Auto IP Assignment
AP Group Management
Auto AP Rebooting
AP Device Name Editing
AP Radio Settings
Traffic Shaping
Fast Roaming (802.11k & 802.11r)
Pre-Authentication (802.11i, 802.11x)
PMK Caching (802.11i)
RSSI Threshold
AP Client Limiting
Client Fingerprinting
AP VLAN Management
VLANs for AP - Multiple SSIDs
Secured Guest Network
Access Point Status Monitoring
Wireless Client Monitoring
Email Alert
Wireless Traffic & Usage Statistics
Real-Time Throughput Monitoring
Visual Topology View
Floor Plan View
Map View
Wireless Coverage Display
Secure Control Messaging (SSL Certificate)
Local MAC Address Database
Remote MAC Address Database (RADIUS)
Unified Configuration Import/Export
Bulk Firmware Upgrade Capability
Intelligent Diagnostics
Kick/Ban Clients
Wi-Fi Scheduler

Temperature Range
Operating: -4º F~140º F (-20º C~60º C)
Storage: -22º F~176º F (-30º C~80º C)

Humidity (non-condensing)
Operating: 90% or less
Storage: 90% or less

Waterproof
IP55-Rated Enclosure

Dimensions & Weights

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight</th>
<th>Width</th>
<th>Length</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENS620EXT</td>
<td>1.11 lbs. (504 g)</td>
<td>7.54&quot; (191.6 mm)</td>
<td>4.49&quot; (114.3 mm)</td>
<td>1.88&quot; (47.7 mm)</td>
</tr>
<tr>
<td>ENS500EXT-AC</td>
<td>0.65 lbs. (0.29 kg)</td>
<td>3.93&quot; (100 mm)</td>
<td>7.20&quot; (185 mm)</td>
<td>1.08&quot; (27 mm)</td>
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<tr>
<td>EnStation5-AC</td>
<td>1.11 lbs. (460 g)</td>
<td>7.48&quot; (190 mm)</td>
<td>1.49&quot; (38 mm)</td>
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Package Contents

| Model | ENS620EXT
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<tr>
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<tbody>
<tr>
<td>ENS620EXT Outdoor Access Point</td>
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<tr>
<td>Power Adapter (48V/0.8A)</td>
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<tr>
<td>PoE Injector (EPA2410GP)</td>
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<tr>
<td>Pole Mounting Brackets</td>
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<tr>
<td>Wall-Mount Screw Set</td>
<td></td>
</tr>
<tr>
<td>(4) 5 dBi SMA Antennas</td>
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<tr>
<td>RJ-45 Ethernet Cable</td>
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<tr>
<td>Quick Installation Guide</td>
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| Model | ENS500EXT-AC
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<tr>
<td>Wall-Mount Screw Set</td>
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<tr>
<td>(2) 5 GHz 5 dBi SMA Antennas</td>
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<tr>
<td>Power Cord</td>
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<tr>
<td>Quick Installation Guide</td>
<td></td>
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| Model | ENS500-AC
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<tbody>
<tr>
<td>ENS500-AC Outdoor Bridge</td>
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<tr>
<td>Power Adapter (EPA2406GP)</td>
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<td>Pole-Mounting Brackets</td>
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<tr>
<td>Power Cord</td>
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<tr>
<td>Quick Installation Guide</td>
<td></td>
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</tbody>
</table>
Technical Specifications continued

**Package Contents continued**

- **EnStation5-AC**
- EnStation5-AC Outdoor Wireless Bridge
- PoE Adapter (EPA2406GP)
- Pole-Mounting Brackets
- Wall-Mount Screw Set
- Power Cord
- Quick Installation Guide

**Certifications**
- FCC, CE

**Warranty**
- 1-Year Standard

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**ENS620EXT Outdoor Access Point**

- Detachable Antenna (SMA Type)
- Top Cover (UL Certified Plastic)
- Bottom (Aluminum Heatsink)
- LED Indicators
- Mounting Holes
- Ground
- Gigabit Ethernet Port (Proprietary 24V PoE Input)
**ENS500EXT-AC Outdoor Access Point**

- Detachable Antenna (SMA Type)
- Top Cover (UL Certified Plastic)
- Gigabit Ethernet Port
- Gigabit Ethernet Port (Proprietary 24V PoE Input)

**ENS500-AC Outdoor Bridge**

- Detachable Antenna (SMA Type)
- Top Cover (UL Certified Plastic)
- Gigabit Ethernet Port
- Gigabit Ethernet Port (Proprietary 24V PoE Input)
EnStation5-AC Outdoor Bridge

- UV Resistant Cover
- Wall/Pole Mounting Bracket
- 360° 3D-Array Rotation
- Sealing Nut
- LED Indicators (Power, Wireless & LAN Status)
- LED Indicators (Power, Wireless & LAN Status)
- Port Cover
- Bracket
- Rotating Hinge
- Sealing Nut
- Lock Washer
- Gigabit Ethernet & Data Port
- PoE Port
- Reset Button

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.