Neutron Series
Managed Gigabit Switches
Optimal Performance, Enterprise Features & Robust Management Options

Neutron Series EWS Managed Gigabit Switches offer enterprise-class features, simplified network configuration, monitoring, and management options and optimal network performance for small to mid-size organizations.

Choose between 8-, 24-, and 48-Gigabit ports and Power-over-Ethernet (PoE+)-ready Layer 2 switches with 1-10 Gbps SFP+ ports. EWS Managed Switch model options also include desktop and rack mountable, fanless and SmartFan designs.

EWS Managed Gigabit Switches support easy deployment and operation. Organizations with limited IT support and budgets can create a reliable, efficiently managed network in no time.

Features & Benefits
• 10/100/1000 GbE Ports
• On-Board Network Management Tools
• 802.3at/af PoE+ Ready
• Network Troubleshooting, Monitoring & Email Alerts
• 1-10 Gbps SFP+ Slots Extend Connectivity via Fiber Uplinks, Redundancy & Failover
• Full-Featured Layer 2 Switching
• Topology View Displays Network Devices & Relationships
• Added Bonus: License-Free AP Management Built-In
• Added Bonus: License-Free Remote Management With ezMaster™
In-Switch Management

Simplified Network Management, Visibility & Troubleshooting

Achieve network management, visibility, and troubleshooting locally through the switch’s on-board Web interface tools. Establish event-based email alerts for notification of predetermined activities.

Supports 4 Different Types of Management

1. **Wired LAN Only**
   - Manage via third-party SNMP manager

2. **Wired LAN + Local Management**
   - Manage locally via on-board tools

3. **Wired LAN + Wireless APs + Local Management**
   - Manage locally via built-in controller

4. **Wired LAN + Wireless APs + Remote Management**
   - Manage remote and distributed networks via ezMaster™

Full-Feature Layer 2 Gigabit Switching

High-Speed Gigabit

Provide reliable Gigabit access for networked devices and reduce delays that interrupt communications. The switch’s 1 or 10 Gbps SFP+ slot options are suitable for connecting wired network segments throughout buildings that extend beyond the limitations of Ethernet cabling.

Power & Connect Multiple Devices

Optimize the installation and power management of network devices such as access points, IP cameras, and VoIP phones by providing 802.3at/af PoE+ power and data on all ports. Regulate power budgets according to device requirements and remotely power cycle individual ports.

In-Depth Network Visibility

Network Topology View automatically maps the network deployment to display device relationships across the infrastructure. Troubleshoot issues without manual tracking, and access the management interface of other EWS Switches directly from Topology View with QuickLink.
Network Traffic Management

Neutron full-featured Layer 2 Switches offer performance-enhancing features that reduce multicasting traffic, speed up port blocking and port forwarding, and increase bandwidth via load balancing. Control each port's available bandwidth speeds for connected devices like APs in areas where more or less speed is needed, such as in lobbies or conference rooms.

Added Bonus: License-Free Access Point & Remote Management

Locally Manage Network Devices With On-Board Tools

Quickly discover, configure and monitor network devices and manage up to 50 APs, Switches, or IP Cameras within the local subnet, license-free, through the switch’s suite of wireless management features.

Centrally Manage Wired & Wireless Devices via ezMaster

Manage Access Points, Switches, and IP Cameras through ezMaster Network Management Software for remote, centralized management of hundreds of devices across the network or multiple sites regardless of size or location without licensing or subscription fees.

Utilize ezWiFi Planner and upload your designed Wi-Fi floorplans into the switch’s interface or ezMaster to show optimized Access Point placement.

VLAN/Voice & Quality of Service

Segment the network by departments or traffic types for increased performance and security with 802.1Q VLAN. While 802.1p Class of Service prioritizes compliant VoIP and video traffic ensuring bandwidth intensive, time-sensitive data is forwarded immediately for clear, smooth voice and video delivery.

Access Control & Security

Protect the network via 802.1X port-based client authentication and security through a RADIUS server. Utilizing Access Control Lists (ACLs), administrators can see who has access to network segments while screening traffic from unauthorized MAC or IP addresses. Establish a Guest VLAN to grant and limit Internet resources for visitors while keeping the network secure.

Simplified Device Management

Centralized device management is easy through both the switch’s on-board tools and ezMaster Software. Group devices for streamlined configuration, provisioning and monitoring; view wired and wireless traffic via a comprehensive at-a-glance dashboard and get rich analytics and reporting.

Network Monitoring & Troubleshooting

Enable 3rd party SNMP management and monitor the network’s performance by viewing port statistics, system logs, and RMON data. Perform port diagnostics through Ping Tests, diagnose cable failure and trace the route data takes through the network to troubleshoot slowdowns or connection issues.
## Managed Gigabit PoE+ Switches

<table>
<thead>
<tr>
<th>Models</th>
<th>EWS7952FP</th>
<th>EWS7952P</th>
<th>EWS7926EFP</th>
<th>EWS1200-28TFP</th>
<th>EWS7928P</th>
<th>EWS912FP</th>
<th>EWS2910P</th>
<th>EWS2908P</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/100/1000 Base-T, PoE+</td>
<td>48</td>
<td>48</td>
<td>24</td>
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<td>8</td>
<td>8</td>
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<tr>
<td>10/100/1000/10000 SFP+ Ports</td>
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<td>10/100/1000 SFP Ports</td>
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<td>2</td>
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<tr>
<td>RJ45 Console Port</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Auto Uplink Gigabit Ports</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Rackmount</td>
<td>19” 1U</td>
<td>19” 1U</td>
<td>19” 1U</td>
<td>19” 1U</td>
<td>13” 1U</td>
<td>9.45” (desktop)</td>
<td>9.45” (desktop)</td>
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<tr>
<td>Total PoE Budget</td>
<td>740W</td>
<td>410W</td>
<td>410W</td>
<td>410W</td>
<td>185W</td>
<td>130W</td>
<td>55W</td>
<td>55W</td>
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<tr>
<td>PoE+ Capable Ports</td>
<td>1-48</td>
<td>1-48</td>
<td>1-24</td>
<td>1-24</td>
<td>1-8</td>
<td>1-8 (802.3af only)</td>
<td>1-8 (802.3af only)</td>
<td></td>
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<tr>
<td>Switching Capacity</td>
<td>104 Gbps</td>
<td>104 Gbps</td>
<td>88Gbps</td>
<td>56 Gbps</td>
<td>56 Gbps</td>
<td>24 Gbps</td>
<td>20 Gbps</td>
<td>16Gbps</td>
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<td>MAC Address Table</td>
<td>8k</td>
<td>8k</td>
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<tr>
<td>Packet Buffer Memory</td>
<td>1.5 MB</td>
<td>1.5 MB</td>
<td>1.5 MB</td>
<td>512 KB</td>
<td>512 KB</td>
<td>512 KB</td>
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<tr>
<td>Power Source</td>
<td>100 to 240 VAC 50/60Hz</td>
<td>100 to 240 VAC 50/60Hz</td>
<td>100 to 240 VAC 50/60Hz</td>
<td>100 to 240 VAC 50/60Hz</td>
<td>100 to 240 VAC 50/60Hz</td>
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<td>100 to 240 VAC 50/60Hz</td>
<td>100 to 240 VAC 50/60Hz</td>
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<tr>
<td>Full Load Power Consumption</td>
<td>795.83 Watts</td>
<td>509.44 Watts</td>
<td>511.8 Watts</td>
<td>440.78 Watts</td>
<td>228.10 Watts</td>
<td>228.10 Watts</td>
<td>63.18 Watts</td>
<td>63.18 Watts</td>
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<tr>
<td>Management</td>
<td>Wireless AP Controller, ezMaster Network Management Software, Web GUI, CLI, SNMP, RMON, HTTPS, Dual Image</td>
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<tr>
<td>Wireless EWS AP Support</td>
<td>Up to 50</td>
<td>Up to 50</td>
<td>Up to 50</td>
<td>Up to 50</td>
<td>Up to 50</td>
<td>Up to 50</td>
<td>Up to 50</td>
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<tr>
<td>Advanced QoS with IPv4/IPv6 Multicast Filtering</td>
<td>IGMP and MLD Snooping</td>
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<tr>
<td>Auto-VoIP</td>
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<tr>
<td>VLANs</td>
<td>Max 4094 Static Groups, Voice VLAN</td>
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<tr>
<td>Network Standards</td>
<td>IEEE 802.3 Ethernet</td>
<td>IEEE 802.3i 10Base-T Ethernet</td>
<td>IEEE 802.3u 100Base-TX Fast Ethernet</td>
<td>IEEE 802.3ab 1000Base-T Gigabit Ethernet</td>
<td>IEEE 802.3x Full-Duplex Flow Control</td>
<td>IEEE 802.3z Gigabit Ethernet 1000Base-SX/LX</td>
<td>IEEE 802.3ad Link Aggregation (Trunking)</td>
<td>IEEE 802.1D Spanning Tree Protocol (STP)</td>
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</tbody>
</table>
### Technical Specifications

#### Network Ports

<table>
<thead>
<tr>
<th>Model</th>
<th>Network Ports</th>
<th>SFP Ports</th>
<th>Console Port</th>
</tr>
</thead>
<tbody>
<tr>
<td>EWS2908P</td>
<td>8 x 10/100/1000 Mbps Ports</td>
<td></td>
<td>1 x RJ45 Console Port</td>
</tr>
<tr>
<td>EWS2910P</td>
<td>8 x 10/100/1000 Mbps Ports</td>
<td>2 x 100/1000 Mbps SFP Slot</td>
<td></td>
</tr>
<tr>
<td>EWS5912FP</td>
<td>8 x 10/100/1000 Mbps Ports</td>
<td>2 x 100/1000 Mbps Uplink, 1 x RJ45 Console Port</td>
<td></td>
</tr>
<tr>
<td>EWS7928P/8EWS1200-28TFP/EWS7926EFP</td>
<td>24 x 10/100/1000 Mbps Ports</td>
<td>2 x 100/1000 Mbps SFP Slot (EWS7926EFP only)</td>
<td>1 x RJ45 Console Port</td>
</tr>
<tr>
<td>EWS7952FP/EWS7952P</td>
<td>48 x 10/100/1000 Mbps Ports</td>
<td>4 x 100/1000 Mbps SFP Slot</td>
<td>1 x RJ45 Console Port</td>
</tr>
<tr>
<td>EWS7928P</td>
<td>8 x 10/100/1000 Mbps Ports</td>
<td>2 x 100/1000 Mbps SFP Slot</td>
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<tr>
<td>EWS7912FP</td>
<td>8 x 10/100/1000 Mbps Ports</td>
<td>2 x 100/1000 Mbps Uplink, 1 x RJ45 Console Port</td>
<td></td>
</tr>
<tr>
<td>EWS1200-28TFP/EWS7926EFP</td>
<td>2 x 100/1000 Mbps SFP Slot (EWS7926EFP only)</td>
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<tr>
<td>EWS7928P/8EWS1200-28TFP/EWS7926EFP</td>
<td>409W</td>
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<tr>
<td>EWS7952FP/EWS7952P</td>
<td>48 x 10/100/1000 Mbps Ports</td>
<td>4 x 100/1000 Mbps SFP Slot</td>
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<td>8 x 10/100/1000 Mbps Ports</td>
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</table>

#### PoE Output

<table>
<thead>
<tr>
<th>Model</th>
<th>PoE Output Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EWS2910P/EWS2908P</td>
<td>Ports 1~8 Output Up to 15.4W</td>
</tr>
<tr>
<td>EWS5912FP</td>
<td>All Gigabit Ethernet Ports Up to 30W</td>
</tr>
<tr>
<td>EWS1200-28TFP/EWS7926EFP</td>
<td>All Gigabit Ethernet Ports Up to 30W</td>
</tr>
<tr>
<td>EWS7928P/EWS7952P</td>
<td>All Gigabit Ethernet Ports Up to 30W</td>
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#### Total PoE Budget

<table>
<thead>
<tr>
<th>Model</th>
<th>Total PoE Budget</th>
</tr>
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<tbody>
<tr>
<td>EWS2908P</td>
<td>55 W</td>
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<tr>
<td>EWS2910P</td>
<td>61.6W</td>
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<tr>
<td>EWS5912FP</td>
<td>130W</td>
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<tr>
<td>EWS7928P</td>
<td>185W</td>
</tr>
<tr>
<td>EWS1200-28TFP/EWS7926EFP</td>
<td>410W</td>
</tr>
<tr>
<td>EWS7952FP</td>
<td>740W</td>
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</table>

#### Power & Source

<table>
<thead>
<tr>
<th>Model</th>
<th>Full Load Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>EWS7928P</td>
<td>88.52 Watts</td>
</tr>
<tr>
<td></td>
<td>110 to 240 VAC 50/60Hz</td>
</tr>
<tr>
<td>EWS7952FP</td>
<td>509 Watts</td>
</tr>
<tr>
<td></td>
<td>110 to 240 VAC 50/60Hz</td>
</tr>
<tr>
<td>EWS1200-28TFP/EWS7926EFP</td>
<td>409.74 Watts</td>
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<tr>
<td></td>
<td>110 to 240 VAC 50/60Hz</td>
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<tr>
<td>EWS7928P</td>
<td>235.3 Watts</td>
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<tr>
<td></td>
<td>110 to 240 VAC 50/60Hz</td>
</tr>
<tr>
<td>EWS5912FP</td>
<td>152.8 Watts</td>
</tr>
<tr>
<td></td>
<td>110 to 240 VAC 50/60Hz</td>
</tr>
<tr>
<td>EWS2910P/EWS2908P</td>
<td>79.4 Watts</td>
</tr>
<tr>
<td></td>
<td>110 to 240 VAC 50/60Hz</td>
</tr>
</tbody>
</table>

#### Software Features / Layer 2 Features

- **802.3ad Link Aggregation**
  - Maximum of 8 Groups/8 Ports per Group

- **Port Mirroring**
  - One-to-One
  - Many-to-One

- **Spanning Tree Protocol**
  - 802.1D Spanning Tree Protocol (STP)
  - 802.1w Rapid Spanning Tree Protocol (RSTP)
  - 802.1s Multiple Spanning Tree Protocol (MSTP)

- **MAC Address Table**
  - 8K Entries
  - Static MAC Address
  - 256 Entries

- **802.1ab Link Layer Discovery Protocol**

- **IGMP Snooping**
  - IGMP v1/v2/v3 Snooping
  - Supports 4094 IGMP Groups
  - IGMP per VLAN

- **IGMP Snooping Querier**

- **IGMP Snooping Fast Leave**

- **MLD Snooping**
  - MLD Snooping v1/v2
  - Supports 4094 MLD Groups
  - MLD per VLAN

- **Jumbo Frame**
  - Up to 9,216 bytes

- **802.3x Flow Control**

- **802.3az Energy Efficient Ethernet**

#### PoE Output

<table>
<thead>
<tr>
<th>Model</th>
<th>PoE Capability</th>
</tr>
</thead>
<tbody>
<tr>
<td>EWS2910P/EWS2908P</td>
<td>Ports 1~8 Support IEEE 802.3af</td>
</tr>
<tr>
<td>EWS5912FP</td>
<td>Ports 1~8 Support IEEE 802.3af</td>
</tr>
<tr>
<td>EWS7928P/EWS1200-28TFP/EWS7926EFP</td>
<td>Ports 1~24 Support IEEE 802.3at/af</td>
</tr>
<tr>
<td>EWS7952FP/EWS7952P</td>
<td>Ports 1~48 Support IEEE802.3at/af</td>
</tr>
</tbody>
</table>

#### LED Indicators

- 1 x Power LED
- 1 x Fault LED
- 1 x PoE Max LED
- 1 x LAN Mode LED
- 1 x PoE Mode LED

- Copper Ports: LAN/PoE Mode, Link/Act
- SFP Ports: Link/Act, Speed (EWS2910P, EWS7952FP, EWS7926EFP only)

#### Switching Capacity

<table>
<thead>
<tr>
<th>Model</th>
<th>Switching Capacity</th>
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</thead>
<tbody>
<tr>
<td>EWS2910P</td>
<td>20 Gbps</td>
</tr>
<tr>
<td>EWS5912FP</td>
<td>24 Gbps</td>
</tr>
<tr>
<td>EWS7928P</td>
<td>56 Gbps</td>
</tr>
<tr>
<td>EWS7952FP</td>
<td>104 Gbps</td>
</tr>
</tbody>
</table>

#### Forwarding Mode

- Store and Forward

#### SDRAM

- 256 MB

#### Flash Memory

- 32 MB

<table>
<thead>
<tr>
<th>Model</th>
<th>Packet Buffer Memory</th>
</tr>
</thead>
<tbody>
<tr>
<td>EWS1200-28TFP/EWS7952P/EWS9512FP/EWS2908P</td>
<td>512 KB</td>
</tr>
<tr>
<td>EWS7952FP/EWS7952P</td>
<td>1.5 MB</td>
</tr>
</tbody>
</table>

### PoE Capable Ports

- EWS2910P/EWS2908P
- EWS5912FP
- EWS7928P/EWS1200-28TFP/EWS7926EFP
- EWS7952FP/EWS7952P

- PoE Standard: Ports 1~8 Support IEEE 802.3af

### Power & Source

- EWS7952FP: Full Load Power Consumption: 885.23 Watts
  - 110 to 240 VAC 50/60Hz

- EWS7952P: Full Load Power Consumption: 509 Watts
  - 110 to 240 VAC 50/60Hz

- EWS1200-28TFP/EWS7926EFP: Full Load Power Consumption: 409.74 Watts
  - 110 to 240 VAC 50/60Hz

- EWS7928P: Full Load Power Consumption: 235.3 Watts
  - 110 to 240 VAC 50/60Hz

- EWS5912FP: Full Load Power Consumption: 152.8 Watts
  - 110 to 240 VAC 50/60Hz

- EWS2910P/EWS2908P: Full Load Power Consumption: 79.4 Watts
  - 110 to 240 VAC 50/60Hz

### LED Indicators

- 1 x Power LED
- 1 x Fault LED
- 1 x PoE Max LED
- 1 x LAN Mode LED
- 1 x PoE Mode LED

- Copper Ports: LAN/PoE Mode, Link/Act
- SFP Ports: Link/Act, Speed (EWS2910P, EWS7952FP, EWS7926EFP only)

#### Switching Capacity

- EWS2910P: 20 Gbps
- EWS5912FP: 24 Gbps
- EWS7928P: 56 Gbps
- EWS7952FP: 104 Gbps

#### Forwarding Mode

- Store and Forward

#### SDRAM

- 256 MB

#### Flash Memory

- 32 MB

<table>
<thead>
<tr>
<th>Model</th>
<th>Packet Buffer Memory</th>
</tr>
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<tbody>
<tr>
<td>EWS1200-28TFP/EWS7952P/EWS9512FP/EWS2908P</td>
<td>512 KB</td>
</tr>
<tr>
<td>EWS7952FP/EWS7952P</td>
<td>1.5 MB</td>
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</tbody>
</table>

PoE Capable Ports

- EWS2910P/EWS2908P
- EWS5912FP
- EWS7928P/EWS1200-28TFP/EWS7926EFP
- EWS7952FP/EWS7952P

PoE Standard: Ports 1~8 Support IEEE 802.3af

### VLAN

- 802.1Q Support
- VLAN Group
  - Max 4,094 Static VLAN Groups
- Voice VLAN
QoS
- 802.1p Quality of Service
  - 8 Queues per Port
Queue Handling
- Strict
- Weighted Round Robin (WRR)
QoS Based on:
- 802.1p Priority
- DSCP
Bandwidth Control
- Port-Based (Ingress/Egress, 64 Kbps~1000 Mbps)
Broadcast/Unknown Multicast/Unknown Unicast
Storm Control

Access Control List (ACL)
Layer 2
- Supports Maximum 32 Entries (ACL)
- Supports Maximum 256 Entries (ACE)
ACL Based on:
- MAC Address
- VLAN ID
- 802.1p Priority
- Ethertype
- IP Address
- Protocol Type
- DSCP

Security
802.1X
- Guest VLAN
- Port-Based Access Control
Supports RADIUS Authentication
Port Security
- Up to 256 MAC Addresses per Port
Port Isolation
DoS Attack Prevention
BPDU Attack Prevention

Monitoring
Port Statistics
System Log
RMON

Management
Web Graphical User Interface (GUI)
Command Line Interface (CLI)
BootP/DHCP Client/DHCPv6 Client
SSH Server
Telnet Server
TFTP Client
HTTPS
SNMP

Wireless Management Features (with Neutron Series Access Points & ezMaster)
- AP VLAN Management
- VLANs for Access Point- Multiple SSIDs
- Secured Guest Network
- Capture Portal
- Access Point Status Monitoring
- Rogue AP Detection
- Email Alert
- Wireless Client Monitoring
- Background Scanning
- 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
- Intelligent Diagnostics
- Bulk Firmware Upgrade Capability
- One-Click Update
- Kick/Ban Clients
- Wi-Fi Scheduler

PoE Management
Power On/Off Per Port
Power Class Configuration
Power Feeding with Priority
User Defined Power Limit

Diagnostic
Cable Diagnostic
Ping Test
Trace Route
IPv6 Ping Test

MIB/RFC Standards
RFC1213
RFC1493
RFC1757
RFC2674
RFC 2863

Technical Specifications continued
Technical Specifications continued

Environmental & Mechanical
Temperature Range
EWS2910P/EWS2908P
Operating: 32°F to 104°F (0°C to 40°C)
Storage Temperature: -40°F to 158°F (-40°C to 70°C)
EWS5912FP/EWS7928P/EWS1200-28TFP/EWS7926EFP/EWS7952FP/EWS7952P
Operating: 32°F to 122°F (0°C to 50°C)
Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Humidity (non-condensing)
Operating: 5% - 95%

Device Dimensions & Weights
EWS2910P/EWS2908P
Weight: 1.36 lbs. (620 g)
Width: 9.45" (240 mm)
Length: 4.13" (105 mm)
Height: 1.06" (27 mm)
EWS5912FP
Weight: 4.4 lbs. (1.9 kg)
Width: 13.00" (330.20 mm)
Length: 9" (228.60 mm)
Height: 1.73" (43.94 mm)
EWS7928P
Weight: 7.82 lbs. (3.5 kg)
Width: 17.3" (439 mm)
Length: 10.24" (260 mm)
Height: 1.73" (44 mm)

Device Dimensions & Weights continued
EWS1200-28TFP/EWS7926EFP
Weight: 7.82 lbs. (3.5 kg)
Width: 17.3" (439 mm)
Length: 10.24" (260 mm)
Height: 1.73" (44 mm)
EWS7952P
Weight: 12.3 lbs. (5.6 kg)
Width: 17.32" (440 mm)
Length: 10.23" (260 mm)
Height: 1.73" (44 mm)
EWS7952FP
Weight: 14.15 lbs. (6.4 kg)
Width: 17.32" (439.9 mm)
Length: 16.14" (409.9 mm)
Height: 1.73" (43.9 mm)

Package Contents
1x EWS Managed Gigabit Switch
1x Quick Installation Guide
EWS2910P/EWS2908P
1x Power Adapter
1x Power Cord
1x Wall Mount Kit
1x Ground Screw Set
EWS5912FP/EWS7928P/EWS7926EFP/EWS7952FP/EWS7952P
1x Power Cord
1x RJ45 Console Cable
1x Rack Mount Kit

Certifications
CE, FCC, IC

Warranty
1 Year
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.