





EWS2908P

The Neutron Series

Distributed Network Management Solution

PoE Gigabit Managed Smart Switch with WLAN Controller

Simplified Management & Optimal Network Performance for Small-to-Mid-Size Organizations

The **EWS2908P** Neutron PoE Gigabit Managed Smart Switches with WLAN Controller featuring 8 PoE Gigabit ports that support full Layer 2 manageability.

The Switches offer simplified network configuration, monitoring, and management options plus ezMaster™ Centralized Network Management Software, a robust, easy-to-use Web-based tool.

Enterprise-class features optimize network efficiency ensuring peak performance while reducing expenses for cost-conscious SMB organizations.

Whether installed in small or mid-scale organizations such as medical offices, warehouses, or large homes, the Smart Switch's design and easy-to-use interface enables effortless and efficient deployment and operation. Organizations with limited IT support and budgets can create a reliable, efficiently managed network in no time.

High Performance Gigabit & Management Flexibility

Each of the Switch's Gigabit Ethernet ports provide seamless, high-speed access for networked devices while reducing bottlenecks that can interrupt communications. The Switch offers deployment flexibility efficiently supporting both wired and wireless networks.

Easy Network Management, Visibility & Troubleshooting

Achieve network management, visibility, and troubleshooting locally through the Switch's on-board Web interface tools or remotely with ezMaster software. Its Network Topology view automatically maps the deployment, displaying device relationships across the infrastructure, and is useful for troubleshooting issues without manual tracking.

Power and Connect Access Points, IP Cameras, VoIP Phone Systems and More

Offers greater flexibility to users by delivering standards-based IEEE 802.3at to increase network flexibility. Add devices to the existing network infrastructure without additional wire planning or reorganizing of the original network design.



Features

- > 10/100/1000 Mbps Gigabit Ethernet Ports
- > IEEE 802.3af Power-over-Ethernet support providing flexibility and simplicity for device deployment
- > Network Troubleshooting, Monitoring, & Email
- Configure, manage & monitor up to 50 locally Access Point throughout EWS switch controllers
- > Centrally manage wired & wireless networks throughout ezMaster[™]
- > Security: Access Control List/Port Security; 802.1X & RADIUS Authentication
- > IGMP and MLD snooping provides advanced multicast filtering
- > 802.3ad Link Aggregation (LACP) supports traffic load balancing
- > Voice VLAN for fast, reliable deployment of VoIP services
- Advanced QoS with IPv4/IPv6 ingress traffic filtering (ACLs) & prioritization
- Energy Efficient Ethernet (802.3az) improves energy savings with compliant devices
- > Dual firmware images improves reliability & network uptime
- Standard-based technology, ensuring interoperability with any standard-based devices in the existing network

Wireless Devices Management

Quickly discover, configure, and monitor Neutron EWS Access Points, EnTurbo 11AC Wave2 Access Points and manage up to 50 devices within the local subnet through the Switch's built-in wireless network controller features.

Centrally Manage the Wired & Wireless Network

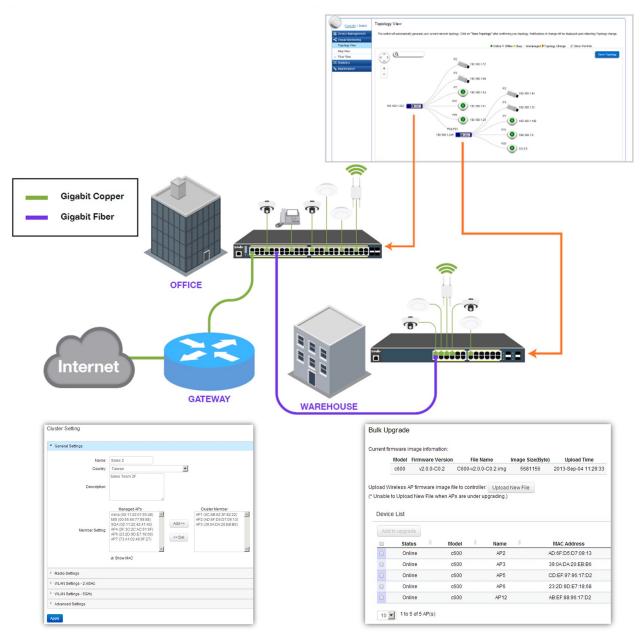
Remotely manage Neutron EWS Access Points, Switches, and IP Cameras through ezMaster Network Management Software. Centrally manage hundreds of EWS devices across the network regardless of its size or location with no licensing or subscription fees.

VLAN/Voice & Quality of Service

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

Energy Saving

With the Energy Efficient Ethernet (EEE) standard, the network will automatically decrease its power usage when traffic is low with no setup required. The switches can also detect the length of connected cables to automatically reduce power usage on shorter cable connections.



Cluster Setting: Assign APs to clusters for group configuration

Bulk Upgrading: Hassle-free AP firmware upgrading

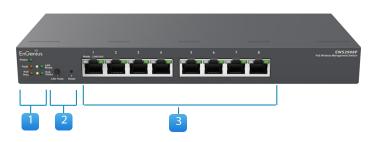
| Technical Specifications | |
|---|--|
| Performance | - MLD Snooping v1/v2 |
| Switching Capacity: 16Gbps | - Supports 256 MLD groups |
| Forwarding Mode: Store-and-Forward | - MLD per VLAN |
| SDRAM: 256 MB | Jumbo Frame: Up to 9216 bytes |
| Flash Memory: 32 MB | 802.3x Flow Control |
| Packet Buffer Memory: 512 KB | 802.3az Energy Efficient Ethernet |
| Address Database Size: 8,000 MAC Addresses | VLAN |
| Network Ports | 802.1Q VLAN Tag supported |
| 8x 10/100/1000 Mbps Ports | VLAN Group: Max 4094 Static VLAN Groups |
| PoE Capability | Voice VLAN |
| PoE Standard: 802.3af | QoS |
| PoE Capable Ports: Ports 1~8 / Up to 15.4W | 802.1p Quality of Service |
| Total PoE Power Budget: 55W | - 8 queues per port |
| LED Indicators | Queue Handling |
| 1 x Power LED | - Strict |
| 1 x Fault LED | - Weighted Round Robin (WRR) |
| 1 x PoE Max LED | QoS based on |
| 1 x LAN Mode LED | - 802.1p Priority |
| 1 x PoE Mode LED | - DSCP |
| Software Features | Bandwidth Control |
| L2 Features | - Port-based (Ingress/Egress, 64 Mbps~1000Mbps) |
| 802.3ad Link Aggregation | Broadcast/Unknown Multicast/ Unknown Unicast Storm Control |
| - Maximum of 8 groups/8 ports per group | Access Control List (ACL) |
| Port Mirroring | Layer 2/3 |
| - One-to-One | - Supports Max. 50 Entries (ACL) |
| - Many-to-One | - Supports Max. 256 Entries (ACE) |
| Spanning Tree Protocol | ACL based on |
| - 802.1D Spanning Tree Protocol (STP) | - MAC Address |
| - 802.1w Rapid Spanning Tree Protocol (RSTP) | - VLAN ID |
| - 802.1s Multiple Spanning Tree Protocol (MSTP) | - 802.1p Priority |
| · · · · · · · · · · · · · · · · · · · | - Ether type |
| Static MAC Address: 256 entries | - IP Address |
| 802.1ab Link Layer Discovery Protocol | - Protocol Type |
| IGMP Snooping | DSCP |
| - IGMP v1/v2/v3 Snooping | Security Security |
| - Supports 256 IGMP Groups | 802.1X |
| - IGMP per VLAN | - Guest VLAN |
| - IGMP Snooping Querier | - Port-based Access Control |
| - IGMP Snooping Fast Leave | Supports RADIUS Authentication |
| - MLD Snooping | Port Security: up to 256 MAC Addresses per Port |

| Technical Specifications | |
|--|---|
| Port Isolation | Client Fingerprinting |
| DoS Attack Prevention | Wireless Security (WPA2 Enterprise, WPA2 PSK) |
| BPDU Attack Prevention | AP VLAN Management |
| Monitoring | VLANs for Access Point- Multiple SSIDs |
| Port Statistics | Captive Portal Per SSID |
| System Log | Access Point Status Monitoring |
| RMON | Rogue AP Detection |
| Management | Wireless Client Monitoring |
| Web Graphical User Interface (GUI) | Background Scanning |
| Command Line Interface (CLI) | Email Alert Notification |
| Boot/DHCP Client/DHCPv6 Client | Wireless Traffic & Usage Statistics |
| SSH Server | Real-time Throughput Monitoring |
| Telnet Server | Visual Topology View |
| TFTP Client | Floor Plan View |
| HTTPS | Map View |
| SNMP: v1/v2c/v3 | Wireless Coverage Display |
| SNMP Trap | Local MAC Address Database |
| SNTP | Remote MAC Address Database (RADIUS) |
| Configuration Restore/Backup | Unified Configuration Import / Export |
| Dual Images | Bulk Firmware Upgrade Capability |
| Diagnostic | One-Click Update |
| Cable Diagnostic | Intelligent Diagnostics |
| Ping Test | Kick/Ban Clients |
| Trace Route | Environmental Specifications |
| WLAN Controller Features | Temperature Range |
| Manage up to 50 Neutron Access Points | Operating Temperature: 0 - 40°C |
| Access Point Auto Discovery and Provisioning | Storage Temperature: -20°C to 70°C |
| Access Point Auto IP Assignment | Humidity |
| Access Point Group Management | 5% ~ 95% (Non-Condensing) |
| Remote Access Point Rebooting | Physical Specifications |
| Access Point Device Name Editing | Weight: 622 g |
| Access Point Radio Settings | Dimensions (W x D x H): 330 x 230 x 44 mm |
| Kick/Ban Clients | Certification |
| Wireless Traffic Shaping Per User / Per SSID | EN 55032+EN55024 |
| RSSI Threshold Per Radio | FCC Subpart 15B |
| Enable Access Points by set scheduler | EN 61000-3 |
| Reboot Access Points by set scheduler | EN61000-4 |
| Remote Log | AS/NZS CISPR 22 |
| Fast Roaming | ICES-003 Issue5 |
| Access Point Client Limiting | |
| | |

Technical Specifications

| Package Content | |
|----------------------------|--|
| - EnGenius Switch | |
| - Power Adapter | |
| - Rack-mount Kit | |
| - Quick Installation Guide | |

Physical Interfaces



- 1. LED Indicators
- 2. Mode Selector & Reset button
- 3. PoE RJ45 Ethernet Ports

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