





EWS2910P

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 **EWS2910P** Neutron PoE Gigabit Managed Smart Switches with WLAN Controller featuring 10 PoE Gigabit ports and 2 SFP Fiber slots 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
- Dedicated SFP slots for longer connectivity via fiber uplinks and for uplink redundancy and failover
- > IEEE 802.3af Power-over-Ethernet support providing flexibility and simplicity for device deployment
- Network Troubleshooting, Monitoring, & Email Alerts
- Configure, manage & monitor up to 50 locally Access Point throughout EWS switch controllers
- > Centrally manage wired & wireless networks throughout ezMasterTM
- 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

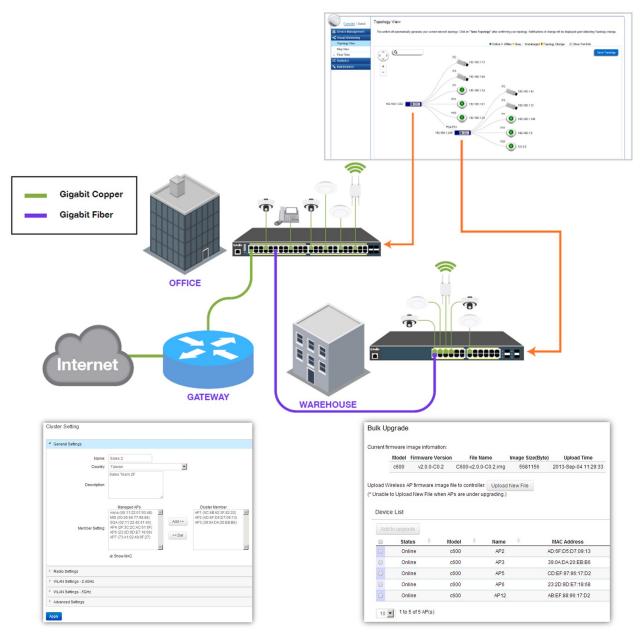
Remotely manage Neutron EWS Access Points, Switches, and IP Cameras through ezMaster Network Management Software. Centrally manage hundreds of EWS devices across the network regardless of its size or location with no licensing or subscription fees.

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	
Switching Capacity: 20Gbps	- MLD Snooping v1/v2	
Forwarding Mode: Store-and-Forward	- Supports 256 MLD groups	
SDRAM: 256 MB	- MLD per VLAN	
Flash Memory: 32 MB	Jumbo Frame: Up to 9216 bytes	
Packet Buffer Memory: 512 KB	802.3x Flow Control	
Address Database Size: 8,000 MAC Addresses	802.3az Energy Efficient Ethernet	
Network Ports	VLAN	
10x 10/100/1000 Mbps Ports	802.1Q VLAN Tag supported	
2x 100/1000 Mbps SFP 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	
SFP Ports: Link/Act, Speed	Bandwidth Control	
Software Features	- Port-based (Ingress/Egress, 64 Mbps~1000Mbps)	
L2 Features	Broadcast/Unknown Multicast/ Unknown Unicast Storm Control	
802.3ad Link Aggregation	Access Control List (ACL)	
- Maximum of 8 groups/8 ports per group	Layer 2/3	
Port Mirroring	- Supports Max. 50 Entries (ACL)	
- One-to-One	- Supports Max. 256 Entries (ACE)	
- Many-to-One	ACL based on	
Spanning Tree Protocol	- MAC Address	
- 802.1D Spanning Tree Protocol (STP)	- VLAN ID	
- 802.1w Rapid Spanning Tree Protocol (RSTP)	- 802.1p Priority	
- 802.1s Multiple Spanning Tree Protocol (MSTP)	- Ethertype	
Static MAC Address: 256 entries	- IP Address	
	- Protocol Type	
802.1ab Link Layer Discovery Protocol	- DSCP	
IGMP Snooping	Security	
- IGMP v1/v2/v3 Snooping	802.1X	
- Supports 256 IGMP Groups	- Guest VLAN	
- IGMP per VLAN	- Port-based Access Control	
- IGMP Snooping Querier	Supports RADIUS Authentication	
- IGMP Snooping Fast Leave	Port Security: up to 256 MAC Addresses per Port	

Tech	nical	Specifi	cations

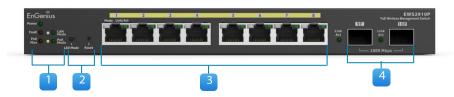
rechnical Specifications		
Port Isolation	Client Fingerprinting	
DoS Attack Prevention	Wireless Security (WPA2 Enterprise, WPA2 PSK)	
BPDU Attack Prevention	AP VLAN Management	
Monitoring	VLANs for Access Point- Multiple SSIDs	
Port Statistics	Captive Portal Per SSID*	
System Log	Access Point Status Monitoring	
RMON	Rogue AP Detection	
Management	Wireless Client Monitoring	
Web Graphical User Interface (GUI)	Background Scanning	
Command Line Interface (CLI)	Email Alert Notification	
BootP/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: 622g	
Access Point Radio Settings	Dimensions (W x D x H): 240 x 105 x 27 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	
T d St T (Odiffing	ICE3-003 ISSUE3	

 $[\]ensuremath{^*}$ Functions will be available throughout upgrading firmware in April, 2018.

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
- 4. Dual-Speed SFP Slots

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