Model (SKU): EWS5912FP
Product Name: WMS 8-Port Gigabit PoE+ L2 Switch
UPC number: 6-55216-00690-4
MSRP: $749

Product Short Description:
EWS5912FP is a Neutron Series Managed Wireless solution 8-Port Gigabit PoE+ Layer 2 Switch with 2 Gigabit uplink ports and 2 Dual-Speed SFP ports.

Product 25 word Description:
EWS5912FP is a Neutron Series Managed Wireless solution 8-Port Gigabit PoE+ Layer 2 Switch with 2 Gigabit uplink ports and 2 Dual-Speed SFP ports for managing up to 20 Neutron Series Access Points.

Product 50 word Description:
EWS5912FP is a Neutron Series Managed Wireless solution 8-Port Gigabit PoE+ Layer 2 Switch with 2 Gigabit uplink ports and 2 Dual-Speed SFP ports for fiber uplinks. As part of an EnGenius Neutron Series wireless management solution, the EWS5912FP can control up to 20 Neutron Series Wireless Access Points to provide a single location with which to centrally configure and manage the entire network.

Product Long Description:
The EWS5912FP is a Neutron Series Managed Wireless solution 8-Port Gigabit PoE+ Layer 2 Switch with 2 Gigabit uplink ports and 2 Dual-Speed SFP ports for fiber uplinks. As part of an EnGenius Neutron Series wireless management solution, the EWS5912FP through its browser-based GUI (Graphical User Interface) can discover, configure, manage and monitor up to 20 Neutron Series Wireless Access Points. The controller mode of the Switch provides a suite of wireless management features for IT managers to configure Neutron Series Access Points. Features include clustering Neutron Series Access Points in clusters with identical policies, Access Point IP Auto-Discovery, remote Access Point rebooting for hard-to-reach / previously deployed units, and a host of visual monitoring features including topology and floor plan view modes for the mapping out and tracking of networks. The controller also features a statistics section for record traffic tracking and comparison between units or over-time comparisons.

The interface also lets IT managers apply configuration changes to multiple Access Points or the entire network simultaneously. A dashboard provides instant access to a variety of clients, network information, and events, while a real time map displays Access Point locations and network topology for planning and deployment.
Managing the wired portion of the network is also easy using the same browser-based interface. The Switch supports IEEE 802.1p QoS which automatically classifies and prioritizes compliant device traffic to ensure that time sensitive data such as VoIP is forwarded without delay.

The Switch’s Gigabit Ethernet ports support IEEE 802.3at/af PoE and can supply up to 30 watts per port for a total PoE budget of 130 watts. The 8 Gigabit ports provide seamless connectivity for devices and applications that require high speed network access and reduce bottlenecks that can interrupt communication. The Switch’s two SFP slots accept fiber transceivers for extending the wired network beyond the limitation of Ethernet cabling. This is especially useful for schools with satellite classrooms, or for hotels and resorts, or other businesses with multiple building properties.

The EWS5912FP includes bracketing hardware for mounting into a switch rack.

**Bullet Points / Differentiators:**

- Simple to use, manage, and deploy
- A full-featured Layer 2 PoE+ Switch with Wireless Management Capability
- Centrally manage and monitor up to 20 EnGenius Neutron Series Wireless Access Points
- Automatic Neutron Series Access Point Discovery and Provisioning
- Wired and Wireless Network Management and Monitoring
- Wireless Access Points Group
- IEEE 802.3at/af PoE on its 8 Gigabit Ports with a total PoE budget of 130 Watts
- Includes 2 Gigabit Port and 2 Dual-Speed SFP (fiber) uplink ports for integrating with an existing network or cascading to other Switches
- Up to 24Gbps non-blocking switching capacity
- Easy to manage and configure via a Web-based Graphical User Interface (GUI)
- Cable Diagnostics
- Advanced Features: 802.1X, ACLs, IGMP Snooping, SNMPv1/v2/v3, RSTP, MSTP
- Link Aggregation
- Port Security
- Command Line Interface (CLI)

**Key Features / Benefits**

- **Simple to Use and Manage**
  - The Neutron Series Managed Wireless solution is quick to setup through a web-based user interface.
- **Simple to Deploy**
  - The EnGenius Wireless Management Switch integrates seamlessly with existing switches, firewalls and other network infrastructure.
- **Scalability**
  - Supports managing of up to 20 Access Points.
• **Neutron Series Access Point Automatic Discovery**
  o Discovers EnGenius Neutron Series Access Points everywhere on the LAN.

• **Managed Access Point Assignment**
  o After the Wireless Management Switch discovers the Neutron Series Access Points, they can be "added" and set "managed" by the Wireless Management Switch.

• **Wireless Performance Configuration**
  o Allows centralized RF management. The EnGenius Wireless Management Switch can centrally configure each Neutron Series Access Point with common settings.

• **Wireless Security Configuration**
  o Streamlines Security Configuration

• **Wireless Network Monitoring**
  o Summarizes managed wireless Access Point status, wireless clients status, and wireless network usage.

• **Maintenance**
  o Provides firmware updates for the managed Access Points on the LAN

• **Neutron Series Access Point Groups**
  o Initially all Neutron Series Access Points belong to the same Access Point group.

• **Advanced Wireless Settings for Neutron Series Access Points**
  o Supports Band Steering, Fast Handover and Guest Network features.

• **Wireless Management Features**
  o The EWS5912FP features wireless management components for customized networks.

• **AP Auto IP-Assignment**
  o Assign an IP address range for wireless clients connecting to the network.

• **Cluster Management**
  o Setup and assign Access Points in clusters within your network to manage the group of Access Points as a single wireless network instead of a series of separate devices.

• **Remote AP Rebooting**
  o Reboot an Access Point remotely, making management of Access Points in hard to reach places easy and hassle free.

• **Visual Monitoring**
  o Keep track of, map out, and plan the placement of Access Points and Switches in your network. You can see a visual view of the topology of a cluster in the network as well as search for Access Points via their IP or MAC address.

• **Gigabit Wired Speed**
  o Utilizes Gigabit Ethernet standard speeds of up to 1000 Mbps for each port, making it ideal for media streaming and large file transfers throughout the network.
• **2 Dual-Speed SFP Ports**
  - Includes 2 SFP ports to support transceivers for fiber cabling for connectivity to offices, buildings, or other parts of the network that exceed the distance capability of regular Ethernet.

• **PoE+ IEEE 802.3at/af Support**
  - Enables PoE devices like Access Points, Client Bridges, IP Cameras, VoIP telephones and others to be powered directly from the Switch over an Ethernet cable.
  - Up to 30 Watts per port with a total PoE budget of 130 Watts.

• **Full-Featured Layer 2 Manageability**
  - The full-featured, managed Layer 2 Switch includes: VLAN, QoS, IGMP/MLD Snooping, STP/RSTP/MSTP, Link Aggregation Control Protocol (LACP), SNMP v1/v2c/v3, and more.

**TECHNICAL SPECIFICATIONS**

**Standard**
Switching Capacity: 24 Gbps
Forwarding Mode: Store and Forward
SDRAM: 256 MB
Flash Memory: 32 Mbytes

**Network Ports**
8 10/100/1000 Mbps Ports
2 100/100 Mbps SFP Ports
1 RJ45 Console Port

**PoE+ Capability**
All Gigabit Ethernet ports support IEEE 802.3at/af
All Gigabit Ethernet ports can output up to 30 Watts
Power budget: 130 Watts

**LED Indicators**
Device:
Power LED
Fault LED
PoE Max LED
LAN Mode LED
PoE Mode LED

Copper Ports:
LAN/PoE Mode LED
Link/Act LED

SFP Ports:
Link/Act LED

**Environment & Mechanical**
**Temperature Range**
Operating: 32 to 104°F/0 to 40°C
Storage: -40 to 158°F/-40 to 70 °C
**Humidity** (Non-Condensing)
5% - 95%

**Wireless Management Features**
AP Supported (20 APs)
Access Point Auto Discovery and Provisioning
Access Point Auto IP-Assignment
Access Point Cluster Management
Remote Access Point Rebooting
Access Point Device Name Editing
Access Point Radio Settings
Band Steering
Traffic Shaping
Fast Handover
Fast Roaming
Access Point Client Limiting
Wireless Security (WEP, WPA/WPA2 Enterprise, WPA/WPA2 PSK)
VLANs for Access Point - Multiple SSIDs
Guest Network
Access Point Status Monitoring
Wireless Client Monitoring
Wireless Traffic & Usage Statistics
Visual Topology View
Floor Plan View
Map View
Secure Control Messaging
SSL Certificate
Local MAC Address Database
Remote MAC Address Database (RADIUS)
Unified Configuration Import/Export
Intelligent Diagnostics
Bulk Firmware Upgrade
Unified Configuration Import/Export
Bulk Firmware Upgrade Capability
Intelligent Diagnostics

**Layer 2 Features**
802.3ad Compatible Link Aggregation
802.1D Spanning Tree (STP)
802.1w Rapid Spanning Tree (RSTP)
802.1s Multiple Spanning Tree (MSTP)
IGMP Snooping v1/v2/v3
MLD Snooping
IGMP Fast Leave
Port Trunking
Port Mirroring: One to one and many to one
VLAN Group
Voice VLAN
Queue
CoS based on 802.1p priority
CoS based on physical port
CoS based on TOS
CoS based on DSCP
BootP/DHCP Client
Firmware Burn-Proof
802.1X Port-based Access Control
802.1X Guest VLAN
Port Security
Port Isolation
Storm Control
Attack Prevention
Access Control List (ACL)
Telnet Server
TFTP Client
BootP/DHCP Client
Web-based support
SNMP v1 support
SNMP v2c support
SNMP v3 support
TFTP upgrade
Command Line Interface (CLI)
SNTP
RMONv1
SYSLOG
Cable Diagnostics
MIB Support
RFC1213
RFC1493
RFC1757
RFC2674

Device, Packaging & Master Carton Dimensions & Weights:
EWS5912FP Device
Weight: 4.4 lbs
Width: 13.00" (330.20 mm)
Length: 9.00" (228.60 mm)
Height: 1.73" (43.94 mm)

Packaging
Weight: 6.2 lbs
Width: 15.4" (391 mm)
Length: 12.2" (310 mm)
Height: 4" (102 mm)
**Master Carton**

Weight: 20.7 lbs
Width: 15.6” (397 mm)
Length: 12.48” (317 mm)
Height: 12.36” (314 mm)

**No. of product boxes per master carton:** 3 units

**Warranty:** 1 Year

Product Image:
User Interface:

Maximum data rates are based on IEEE 802.3ab 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 ©2014 EnGenius Technologies, Inc. All rights reserved. Compliant with FCC - This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in
in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.