**Technical Specifications**

Port Standards

802.3 10Base-T Ethernet  
802.3u 100Base-TX Ethernet  
802.3ab 10000Base-T Ethernet  
802.3x Full-Duplex Flow Control

Network Ports

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

Performance

Switching Capacity: 24 Gbps  
Forwarding Mode: Store-and-Forward  
SDRAM: 256 MB  
Flash Memory: 32 MB  
Packet Buffer Memory: 512 KB  
Address Database Size: 8,000 MAC Addresses

PoE Capability

PoE Standard: Ports 1~8 Support IEEE 802.3af/at  
PoE Capable Ports: All Gigabit Ethernet Ports/Up to 30 W

PoE Budget

130 W

Power Source

100 ~ 240VAC, 50-60Hz  
2.5A

**Physical Interface**

LED Indicators

Reset Button  
Desktop/Wall Mount

LED Indicators

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

Ports

Link/Activity/Speed (per Ethernet port)  
Link/Activity/Speed (per SFP slot)

**L2 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 Query  
– IGMP Snooping Fast Leave

MLD Snooping

– MDL Snooping v1/v2  
– Supports 4,094 MLD Groups  
– IGMP per VLAN

Jumbo Frame

– Up to 9,216 bytes

802.3x Flow Control

802.3az Energy Efficient Ethernet

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 2/3  
– Supports Maximum 50 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

– Supports v1/v2c/v3  
SNMP Trap  
SNTP  
Configuration Restore/Backup  
Dual Images

Diagnostic

Cable Diagnostic  
Ping Test  
Trace Route

MIB/RFC Standards

RFC1213  
RFC1493  
RFC1757  
RFC2674  
RFC 2863

**Wireless Management Features**

AP Supported (up to 50 APs in controller mode)

Access Point Auto Discovery & Provisioning  
Access Point Auto IP-Assignment  
Access Point Group Management  
Remote Access Point Rebooting  
Access Point Device Name Editing  
Access Point Radio Settings  
Band Steering  
Traffic Shaping  
RSSI Threshold  
Fast Roaming  
Access Point Client Limiting  
Client Fingerprinting  
Wireless Security (WPA/WPA2 Enterprise, WPA/WPA2 PSK)  
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  
Wireless Coverage Display  
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 Capability  
One-Click Update  
Kick/Ban Clients

**Environmental & Physical**

Temperature Range

Operating: 32 to 122° F/0 to 50° C  
Storage: -4 to 158° F/-20 to 70 ° C

Humidity (Non-Condensing)

5% – 95%

Package Contents

(1) EWS5912FP Switch  
(1) Power Cord  
(1) RJ45 Console Cable  
(1) Rack Mount Kit  
(1) Quick Installation Guide

**Dimensions & Weight**

EWS5912FP Device

Weight: 4.18 Ibs (1.9 kg)  
Width: 13.00” (330 mm)  
Length: 9.00” (230 mm)  
Height: 1.73” (44 mm)