**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)