**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**

48 10/100/1000 Mbps Ports
4 10/100/1000 Mbps SFP Ports
1 RJ45 Console Port

**Performance**

Switching Capacity: 104 Gbps
Forwarding Mode: Store-and-Forward
SDRAM: 256 MB
Flash Memory: 32 MB
Packet Buffer Memory: 1.5 MB
Address Database Size: 8,000 MAC Addresses

**PoE Capability**

PoE Standard: Ports 1~48 Support IEEE 802.3af/at
PoE Capable Ports: All Gigabit Ethernet Ports/Up to 30 W

**PoE Budget**

740 W

**Power Source**

100 ~ 240VAC, 50-60Hz
12A

**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) EWS7952FP Switch
(1) Power Cord
(1) RJ45 Console Cable
(1) Rack Mount Kit
(1) Quick Installation Guide

**Dimensions & Weight**

**EWS7952FP Device**

Weight: 14.10 lbs. (6.4kg)
Width: 17.32” (440 mm)
Length: 16.14” (410 mm)
Height: 1.73” (44 mm)