### 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

24 10/100/1000 Mbps Ports  
2 10/100/1000/10000 Mbps SFP+ Ports  
1 RJ45 Console Port

#### Performance

Switching Capacity: 56 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 1~24 Support IEEE 802.3af/at  
PoE Capable Ports: All Gigabit Ethernet Ports/Up to 30 W

### Physical Interface

#### LED Indicators

Reset Button  
Desktop/Wall Mount

#### LED Indicators

Device:  
Power LED  
Fault LED

#### Ports:

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

#### Power Source

100 to 240 VAC 50/60 Hz  
410 W Internal Power

### 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 32 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  
Email Alert

#### Diagnostic

Cable Diagnostic  
Ping Test  
Trace Route

#### MIB/RFC Standards

RFC1213  
RFC1493  
RFC1757  
RFC2674  
RFC 2863