### 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