

16-Port 10/100/1000 Layer 2 Plus Managed Switch with 1G/10G SFP Slots

SG162147M

Technical Specifications

General	
Network Ports:	<ul style="list-style-type: none"> • (12) 100/1000 Base SFP Slots • (2) 1G/10G SFP+ Slots • (2) 10/100/1000 Base Copper Ports • Shielded RJ-45, Auto-Negotiate, Auto-MDI/MDI-X Support • Back-pressure flow control for half-duplex • 802.3x flow control for full-duplex
Network Cables:	<ul style="list-style-type: none"> • 10/100/1000Mbps: Cat.5 up to 100m • 1Gbps: Cat.5e or higher up to 100m • 10Gbps: Cat.6 or higher up to 100m • Multi-mode or Single-Mode fiber with LC Connectors
Switching Capacity:	<ul style="list-style-type: none"> • 68Gbps switch capacity • 50.60Mpps throughput • Supports jumbo frames up to 10K
Security	
Secure Shell (SSH):	Support SSH v1 & v2 securing Telnet traffic in and out of the switch
Secure Sockets Layer (SSL):	Encrypts HTTP Traffic
Port Security:	Locks MAC addresses to ports and limits learned MAC addresses
IP Source Guard:	Prevents datagram with spoofed addresses from being in the network
IEEE 802.1X:	<ul style="list-style-type: none"> • RADIUS authentication, authorization, and accounting • MD5 hash • Guest VLAN • IGMP-RADIUS based 802.1X • Dynamic VLAN assignment
RADIUS/TACACS+:	Supports RADIUS and TACACS+ authentication
Storm Control:	Prevents LAN traffic from being disrupted by broadcast, multicast, or unicast storm
ACLs:	<ul style="list-style-type: none"> • Supports up to 512 entries • Manage Drop or Rate Limitation

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Layer 2 Switching	
Spanning Tree:	<ul style="list-style-type: none">• Standard Spanning Tree (STP) 802.1d• Rapid Spanning Tree (RSTP) 802.1w• Multiple Spanning Tree (MSTP) 802.1s
Trunking:	<ul style="list-style-type: none">• Link Aggregation Control Protocol (LACP) IEEE 802.3ad• Up to 8 Groups• Up to 8 Ports Per Group
VLAN:	<ul style="list-style-type: none">• Port-Based VLAN• 802.1Q Tag-Based VLAN, up to 4K active VLANs• MAC-Based VLAN• Management VLAN• Private VLAN Edge (PVE)• Q-in-Q (Double Tag) VLAN
Voice VLAN:	Voice traffic is automatically assigned to a Voice-Specific VLAN
Generic VLAN Registration (GVRP):	Protocols for automatically propagating and configuring VLANS in a bridged domain.
DHCP Relay (Option 82):	Designed to allow a DHCP Relay Agent to insert circuit specific information into requests sent to a DHCP server. Two sub-options: Circuit & Remote ID
IGMP:	<ul style="list-style-type: none">• Snooping v1/v2/v3, supports 1024 multicast groups• Querier• Proxy MLD v1/v2 snooping

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Quality of Service	
Hardware Priority Queue:	Supports 8 hardware queues
Scheduling:	<ul style="list-style-type: none"> • Strict priority and weighted round-robin (WRR) • Queue assignment base on DSCP and class of service (802.1p/CoS)
Classification:	Port-based, 802.1p VLAN priority based, IPv4/IPv6 precedence/type of service (ToS)/DSCP based, DiffServ, classification and re-marking ACLs, trusted QoS
Rate Limiting:	Ingress policy, Egress sharing and rate control, per VLAN/Port/Flow Based
Management	
Web GUI Interface:	Built-in switch utility supports configuration, maintenance, and monitoring
Dual Image:	Provides independent primary and secondary OS files for upgrading backup
SNMP:	<ul style="list-style-type: none"> • SNMP v1/v2c/v3 with support for traps • SNMP v3 user-based security model (USM)
Remote Monitoring (RMON):	Embedded RMON software supports groups 1, 2, 3, 9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring, and analysis
Port Mirroring:	<ul style="list-style-type: none"> • For analysis with a network analyzer or RMON probe • One session is supported
Management Support:	Single IP, HTTP/HTTPS, SSH, RADIUS, DHCP Client/DHCPv6 Client, SNTP, Cable Diagnostics, Ping, Syslog, Telnet
Layer 3 Switching	
DHCP Server:	Supports DHCP Server to assign IP addresses to DHCP Clients
IPv4/IPv6 Static Routing:	Supports IPv4 and IPv6 Unicast: Static Routing
Mechanical	
Dimensions:	<ul style="list-style-type: none"> • 11 x 5.28 x 1.73 inches (WxDxH) • Weight: 2.2 Pounds
Power:	<ul style="list-style-type: none"> • AC: 100-240VAC, 50-60Hz • DC: 24/48VDC
Temperature:	<ul style="list-style-type: none"> • Operating: -20°C to 60°C • Storage: -40°C to 85°C • Humidity: 10% to 90% relative, non-condensing
Certifications:	<ul style="list-style-type: none"> • CE Mark • FCC Part 15, Class A