

Specifications

Hardware Features & Performance		
Product Picture		
Model		SG2218 V1.20
General	Interface	16 10/100/1000Mbps RJ45 Ports 2 Gigabit SFP Slots
	Flash	32 MB
	DRAM	256 MB
	Port Standard	IEEE 802.3i:10BASE-T Ethernet;
		IEEE 802.3u:100BASE-X Fast Ethernet;
		IEEE 802.3ab:1000BASE-T Gigabit Ethernet;
		IEEE 802.3z:1000BASE-X Gigabit Ethernet (Optical fiber)
		IEEE 802.3x: Flow Control
		IEEE 802.3az: Energy Efficient Ethernet
		IEEE 802.1q: Virtual Bridged Local Area Networks
		IEEE 802.1p: Traffic Class Expediting and Dynamic Multicast Filtering
		IEEE 802.3ad: Link Aggregation and LACP basics
		IEEE 802.1d: Spanning Tree Protocol
		IEEE 802.1s: Multiple Spanning Tree Protocol

Hardware Features & Performance		
General	Port Standard	IEEE 802.1w: Rapid Spanning Tree Protocol
		IEEE 802.1ab: Station and Media Access Control Connectivity Discovery (LLDP)
		IEEE 802.1x: Port Based Network Access Control
Port	Loopback Detection	Alert
		Port Based
		VLAN Based
	Port Security	Learn Mode
		Port Max Learned MAC
		Current Learned Number
		Status
		Exceed Max Learned Number
Performance	Switching Capacity	36 Gbps
	Packet Forwarding Rate	26.78 Mpps
	MAC Address Table	8K
	Packet Buffer	4.1 Mbit
	Transmission Method	Store and Forward
	Number of IP Interfaces	16
	Number of Static Routers	32 (IPv4, IPv6)
	Jumbo Frame	9 KB

Hardware Features & Performance

Physical & Environment	Power Supply	100-240V AC, 50/60Hz
	Max Power Consumption	12.3 W (220 V/50 Hz)
	Max Heat Dissipation	41.97 BTU/hr (220 V/50 Hz)
	Standby Power Consumption	3.84 W (220 V/50 Hz)
	Dimensions (W x D x H)	17.3 × 7.1 × 1.7 in (440 × 180 × 44 mm)
	Fan Quantity	Fanless
	Installation	Rackmount
	Operating Temperature	0 °C to 50 °C (32 °F to 122 °F)
	Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)
	Operation Humidity	10% to 90% RH, non-condensing
	Storage Humidity	5% to 90% RH, non-condensing
	Certification	CE, FCC, RoHS
	EMC	FCC Class A、CE Class A

Software		
Software	IGMP Snooping	IGMP V1/V2/V3
		Report Message Suppression
		Fast Leave
		Unknown Multicast Discard
		Static Multicast IP
		IGMP Snooping Querier
		IGMP Packet Statistics
	VLAN	VLAN Group
		Max. 4K VLAN Groups
		802.1Q tag VLAN
		MAC VLAN: 12 Entries
		Protocol VLAN
		GVRP
		Voice VLAN
	IPv6	IPv6 Static Routing and ACL
		IPv6 Dual IPv4/IPv6
		IPv6 Interface
		Multicast Listener Discovery (MLD) Snooping
		IPv6 Neighbor Discovery (ND)
		Path Maximum Transmission Unit (MTU) Discovery
		Internet Control Message Protocol (ICMP) Version 6

Software		
Software	IPv6	TCPv6/UDPv6
		IPv6 Applications
		DHCPv6 Client
		Ping6
		Tracert6
		Telnet (v6)
		IPv6 SNMP
		IPv6 SSH
		IPv6 SSL
		Http/Https
		IPv6 TFTP
	L2 and L2+ Features	16 IP Interfaces: Support IPv4/IPv6 Interface
		Static Routing: 32 IPv4/IPv6 Static Routes
		DHCP Server
		DHCP Relay - DHCP Interface Relay - DHCP VLAN Relay
		DHCP L2 Relay
		Static ARP
		Proxy ARP

Software		
Software	L2 and L2+ Features	Gratuitous ARP
		Link Aggregation
		Spanning Tree Protocol
		Loopback Detection
		802.3x Flow Control
		Mirroring
		Device Link Detect Protocol (DLDP)
		802.1ab LLDP/ LLDP-MED
LLDP (802.1ab)	LLDP (802.1ab)	Enable/Disable
		Local Info
		Neighbor Info
		Statistic Info
	LLDP-MED	Local Info
		Neighbor Info
QoS	Rate Limit	Ingress Rate Limit
		Egress Rate Limit
		Rate Limit Grade
	Strom Control	Control Mode
		Broadcast
		Multicast
		Unknown Unicast

Software		
QoS	Voice VLAN	Supported OUI Numbers 16
		Auto VoIP
802.1x	Auth Method	PAP/EAP-MD5/EAP-TLS/EAP-TTLS/EAP-PEAP
	Radius Authentication	Support
SNMP	AAA	Support
	SNMP Version	V1/V2c/V3
	SNMP Config	Global Config
		SNMP View
		SNMP Group
		SNMP User
		SNMP Community
	Notification	Trap
		Inform
System Tools	Config Restore/ Backup Web	HTTP
	Config Restore/ Backup CLI	TFTP
	Firmware Upgrade Web	HTTP
	Firmware Upgrade CLI	TFTP
Access Security	Telnet Config	Enable/Disable
		Port Setting
		IPv6 Telnet

Software		
Access Security	Access Control Config	IP-based
		MAC-based
		Port-based
	HTTP Config	Enable/Disable
		Session Config
		Access User Number
		Port Setting
	SSL Config	SSLv3/TLSv1 Enable/Disable
		CipherSuite Config
		IPv6 SSL
	SSH Config	v1/v2 Enable/Disable
		Encryption Algorithm
		Data Integrity Algorithm
		Port Setting
		IPv6 SSH
	Telnet Config	Enable/Disable
		Port Setting
		IPv6 Telnet

Software		
Network Security	DoS Defend	Land Attack
		Scan SYNFIN
		Xmascan
		NULL Scan
		SYN sPort Less 1024
		Ping Flooding
		SYN/SYN-ACK Flooding
		Blat Attack
		WinNuke Attack
		Smurf Attack
		Ping Of Death
	Advanced security feature	IP-MAC-Port Binding
Management	Standalone	Web Management
	Centralized Management	Cloud Management
		Application