

24-Port 10/100/1000 Layer 2 Managed Ethernet Switch with (24) SFP Slots

SG24424M

Product Features

- (4) 10/100/1000Mbps Copper Ports
- (24) SFP Slots
- Supports 100/1000Mbps Fiber SFP Modules
- Supports 10/100/1000Mbps Copper SFP Modules
- Supports DHCP snooping & DHCP Relay
- Supports Q-in-Q (Double-tag)
- Supports jumbo frames up to 9K
- Port Mirroring for network monitoring
- Provides port bandwidth control function
- Supports IPv6
- Supports STP, RSTP and MSTP protocols
- Supports Multicast VLAN registration for IPTV
- Supports IP-MAC-Port binding for LAN security
- Supports Port-Based and 802.1Q Tag-based VLAN
- Supports 802.1x Access Control for improved security



Technical Specifications

Network Ports:	(4) 10/100/1000Mbps Copper Ports (24) SFP Slots (4) of the SFP slots are combo ports with the (4) 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:	10/100Mbps: Cat.5 up to 100m, 1000Mbps: Cat.5e or higher up to 100m Multi-mode or Single-Mode fiber with LC Connectors
Switching Capacity:	48Gbps switch capacity 35.71Mpps throughput 16K MAC addresses Supports jumbo frames up to 9K
Spanning Tree:	Standard Spanning Tree (STP) 802.1d Rapid Spanning Tree (RSTP) 802.1w Multiple Spanning Tree (MSTP) 802.1s
Trunking:	Link Aggregation Control Protocol (LACP) IEEE 802.3ad <ul style="list-style-type: none"> • Up to 12 Groups • Up to 8 Ports Per Group
VLAN:	Port-Based VLAN 802.1Q Tag-Based VLAN, up to 4K active VLANs Supports Q-inQ (Double -tag) MAC-Based VLAN Management VLAN Private VLAN Edge (PVE)
Generic VLAN Registration (GVRP):	Protocols for automatically propagating and configuring VLANS in a bridged domain.

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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
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
DHCP Snooping:	Prevents attackers from adding DHCP servers to a network
QoS:	Supports Port-Based, 802.1 and Diffserve (IPv4) QoS Packet Classification Supports WRR and Strict scheduling Supports 802.1p QoS with (4) Priority Queues Levels
Bandwidth Control:	Supports ingress and egress rate limits
Port Mirroring:	Support 1: N mirroring Supports port sniffer function with ingress and egress
LED Indication:	Per Unit: Power Per Port: Link/Activity, Speed
Management Support:	Web Browser Software, SNMP v1, 2c and 3
Management Objects:	System Information, Ports, VLANs, QoS, Aggregation, LACP, RSTP, 802.1x IGMP Snooping, Mirror, Filter, Rate Control, Storm Control, SNMP
Environment:	Operating Temperature: 0° C ~ 60° C Storage Temperature: -20° C ~ 70° C Relative Humidity: 10% to 90% non-condensing
Dimensions:	17.40 x 8.31 x 1.73 inches (WxDxH) (1U, 19" Rack-Mountable) Weight: 6.6 Pounds
Power:	Dual Power for Redundancy: 100-240VAC, 50-60Hz -48VDC Consumption: 40W max.
Certifications:	CE Mark FCC Part 15, Class A CISPR Part 15, Class A



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Available SFP Modules

Model	Speed (Mbps)	Wavelength	Media	Distance	Connector	TX Power	RX Sens	Temp
TSRJ45	10/100/1000	-	Copper	100m	RJ-45	-	-	0 to 70° C
FEMM	100	850nm	MMF	62.5µ: 220m 50µ: 550m	LC	-10 ~ -4	< -24	0 to 70° C
FE2MM	100	1310nm	MMF	2km	LC	-20 ~ -4	< -31	0 to 70° C
FE10SM	100	1310nm	SMF	10km	LC	-15 ~ -8	< -34	0 to 70° C
GBMM	1000	850nm	MMF	62.5µ: 220m 50µ: 550m	LC	-9.5 ~ -4	< -18	0 to 70° C
GB2MM	1000	1310nm	MMF	2km	LC	-9 ~ -1	< -19	0 to 70° C
GB10SM	1000	1310nm	MMF / SMF	MM 62.5µ: 220m MM 50µ: 550m SM 9µ: 10km	LC	-9.5 ~ -3	< -20	0 to 70° C
GB20SM	1000	1310nm	SMF	20km	LC	-4 ~ +1	< -24	0 to 70° C
GB40SM	1000	1550nm	SMF	40km	LC	-4 ~ +1	< -24	0 to 70° C
GB70SM	1000	1550nm	SMF	70km	LC	0 ~ +5	< -24	0 to 70° C
GB100SM	1000	1550nm	SMF	100km	LC	0 ~ +5	< -30	0 to 70° C
GB10SFA	1000	Tx: 1310nm Rx: 1550nm	SMF	10km	LC	-3 ~ -9	< -21	0 to 70° C
GB10SFB	1000	Tx: 1550nm Rx: 1310nm	SMF	10km	LC	-3 ~ -9	< -21	0 to 70° C
GB20SFA	1000	Tx: 1310nm Rx: 1550nm	SMF	20km	LC	-3 ~ -8	< -23	0 to 70° C
GB20SFB	1000	Tx: 1550nm Rx: 1310nm	SMF	20km	LC	-3 ~ -8	< -23	0 to 70° C
GB40SFA	1000	Tx: 1310nm Rx: 1550nm	SMF	40km	LC	-3 ~ +2	< -23	0 to 70° C
GB40SFB	1000	Tx: 1550nm Rx: 1310nm	SMF	40km	LC	-3 ~ +2	< -23	0 to 70° C
GB60SFA	1000	Tx: 1310nm Rx: 1550nm	SMF	60km	LC	0 ~ +5	< -24	0 to 70° C
GB60SFB	1000	Tx: 1550nm Rx: 1310nm	SMF	60km	LC	-2 ~ +4	< -25	0 to 70° C
GB80SFA	1000	Tx: 1310nm Rx: 1550nm	SMF	80km	LC	-2 ~ +3	< -26	0 to 70° C
GB80SFB	1000	Tx: 1550nm Rx: 1310nm	SMF	80km	LC	-2 ~ +3	< -26	0 to 70° C

CWDM and DWDM modules are also available. Call for details.