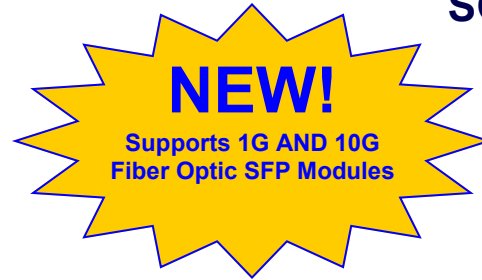


**28-Port 10/100/1000 Layer 2 Plus Managed Switch with 1G/10G SFP Slots**

**SG72870M**



**Product Features**

- (24) 10/100/1000Mbps Copper Ports
- (4) 1G/10G SFP Slots
- Supports 1G/10Gbps Fiber SFP Modules
- Supports 10/100/1000Mbps Copper SFP Modules
- Supports DHCP snooping & DHCP Relay
- 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**

General	
<b>Network Ports:</b>	<ul style="list-style-type: none"> <li>• (24) 10/100/1000Mbps Copper Ports</li> <li>• (4) SFP Slots</li> <li>• Shielded RJ-45, Auto-Negotiate, Auto-MDI/MDI-X Support</li> <li>• Back-pressure flow control for half-duplex</li> <li>• 802.3x flow control for full-duplex</li> </ul>
<b>Network Cables:</b>	<ul style="list-style-type: none"> <li>• 10/100Mbps: Cat.5 up to 100m</li> <li>• 1Gbps: Cat.5e or higher up to 100m</li> <li>• 10Gbps: Cat.6 or higher up to 100m</li> <li>• Multi-mode or Single-Mode fiber with LC Connectors</li> </ul>
<b>Switching Capacity:</b>	<ul style="list-style-type: none"> <li>• 128Gbps switch capacity</li> <li>• 95.23Mpps throughput</li> <li>• Supports jumbo frames up to 9K</li> </ul>



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Layer 2 Switching	
<b>Spanning Tree:</b>	<ul style="list-style-type: none"> <li>• Standard Spanning Tree (STP) 802.1d</li> <li>• Rapid Spanning Tree (RSTP) 802.1w</li> <li>• Multiple Spanning Tree (MSTP) 802.1s</li> </ul>
<b>Trunking:</b>	<ul style="list-style-type: none"> <li>• Link Aggregation Control Protocol (LACP) IEEE 802.3ad</li> <li>• Up to 14 Groups</li> <li>• Up to 8 Ports Per Group</li> </ul>
<b>VLAN:</b>	<ul style="list-style-type: none"> <li>• Port-Based VLAN</li> <li>• 802.1Q Tag-Based VLAN, up to 4K active VLANs</li> <li>• MAC-Based VLAN</li> <li>• Management VLAN</li> <li>• Private VLAN Edge (PVE)</li> </ul>
<b>Voice VLAN:</b>	Voice traffic is automatically assigned to a Voice-Specific VLAN
<b>Generic VLAN Registration (GVRP):</b>	Protocols for automatically propagating and configuring VLANS in a bridged domain.
<b>DHCP Relay (Option 82):</b>	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
<b>IGMP:</b>	<ul style="list-style-type: none"> <li>• Snooping v1/v2/v3, supports 1024 multicast groups</li> <li>• Querier</li> <li>• Proxy MLD v1/v2 snooping</li> </ul>
Security	
<b>Secure Shell (SSH):</b>	Support SSH v1 & v2 securing Telnet traffic in and out of the switch
<b>Secure Sockets Layer (SSL):</b>	Encrypts HTTP Traffic
<b>Port Security:</b>	Locks MAC addresses to ports and limits learned MAC addresses
<b>IP Source Guard:</b>	Prevents datagram with spoofed addresses from being in the network
<b>IEEE 802.1X:</b>	<ul style="list-style-type: none"> <li>• RADIUS authentication, authorization, and accounting</li> <li>• MD5 hash</li> <li>• Guest VLAN</li> <li>• IGMP-RADIUS based 802.1X</li> <li>• Dynamic VLAN assignment</li> </ul>
<b>RADIUS/TACACS+:</b>	Supports RADIUS and TACACS+ authentication
<b>Storm Control:</b>	Prevents LAN traffic from being disrupted by broadcast, multicast, or unicast storm
<b>ACLs:</b>	<ul style="list-style-type: none"> <li>• Supports up to 256 entries</li> <li>• Manage Drop or Rate Limitation</li> </ul>

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Quality of Service	
<b>Hardware Priority Queue:</b>	Supports 8 hardware queues
<b>Scheduling:</b>	<ul style="list-style-type: none"> <li>• Strict priority and weighted round-robin (WRR)</li> <li>• Queue assignment base on DSCP and class of service (802.1p/CoS)</li> </ul>
<b>Classification:</b>	Port-based, 802.1p VLAN priority based, IPv4/IPv6 precedence/type of service (ToS)/DSCP based, DiffServ, classification and re-marking ACLs, trusted QoS
<b>Rate Limiting:</b>	Ingress policy, Egress sharing and rate control, per VLAN/Port/Flow Based
<b>IPv6 Applications:</b>	Web/SSL, Telnet/SSH, Ping, SNTP, TFTP, SNMP, Syslog
Management	
<b>Web GUI Interface:</b>	Built-in switch utility supports configuration, maintenance, and monitoring
<b>Dual Image:</b>	Provides independent primary and secondary OS files for upgrading backup
<b>SNMP:</b>	<ul style="list-style-type: none"> <li>• SNMP v1/v2c/v3 with support for traps</li> <li>• SNMP v3 user-based security model (USM)</li> </ul>
<b>Remote Monitoring (RMON):</b>	Embedded RMON software supports groups 1, 2, 3, 9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring, and analysis
<b>Port Mirroring:</b>	<ul style="list-style-type: none"> <li>• For analysis with a network analyzer or RMON probe</li> <li>• One session is supported</li> </ul>
<b>Management Support:</b>	Single IP, HTTP/HTTPS, SSH, RADIUS, DHCP Client/DHCPv6 Client, SNTP, Cable Diagnostics, Ping, Syslog, Telnet
Green Ethernet	
<b>Link Detection:</b>	<ul style="list-style-type: none"> <li>• Compliant with IEEE 802.3az</li> <li>• Automatically turns of an RJ-45 port if link is down or client is idle</li> </ul>
<b>Cable Length Detection:</b>	<ul style="list-style-type: none"> <li>• Adjusts the signal strength based on cable length</li> <li>• Reduces power consumption for shorter cables</li> </ul>
Mechanical	
<b>Dimensions:</b>	<ul style="list-style-type: none"> <li>• 17.40 x 8.31 x 1.73 inches (WxDxH) (1U, 19" Rack-Mountable)</li> <li>• Weight: 5.3 Pounds</li> </ul>
<b>Power:</b>	100-240VAC, 50-60Hz
<b>Temperature:</b>	<ul style="list-style-type: none"> <li>• Operating: 0°C to 40°C</li> <li>• Storage: -20°C to 70°C</li> <li>• Humidity: 10% to 90% relative, non-condensing</li> </ul>
<b>Certifications:</b>	<ul style="list-style-type: none"> <li>• CE Mark</li> <li>• FCC Part 15, Class A</li> </ul>

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**Available SFP Modules**

Model	Speed (Mbps)	Wavelength	Media	Distance	Connector	TX Power	RX Sens	Temp
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
10GBMM	10G	850nm	MMF	62.5µ: 30m 50µ: 80m OM3: 300m	LC	-7 ~ -1	< -10	0 to 70° C
10GB10SM	10G	1310nm	SMF	10km	LC	-6 ~ +1	< -14	0 to 70° C
10GB40SM	10G	1550nm	SMF	40km	LC	-1 ~ +2	< -16	0 to 70° C
10GB80SM	10G	1550nm	SMF	80km	LC	0 ~ +4	< -23	0 to 70° C

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