

28-Port 10/100/1G/10G Layer 2+ Managed Switch with 1G/10G SFP/SFP+ Slots

**SGX72870M
SGX72870MP**

Product Features

- (24) 10/100/1000Mbps Copper Ports
- (4) 1G/10G SFP/SFP+ Slots
- L2+ Management
- Supports Multiple VLAN Protocols
- Supports Jumbo Frames up to 10K
- Port Mirroring for Network Monitoring
- Supports STP, RSTP, MSTP Protocols
- Advanced Security Features
- See Page 3 for available fiber optic modules



Models	
SGX72870M	<ul style="list-style-type: none"> • (24) 10/100/1000Mbps Copper Ports • (4) 1G/10G SFP/SFP+ Slots
SGX72870MP	<ul style="list-style-type: none"> • (24) 10/100/1000Mbps PoE/PoE+ Copper Ports (600W Budget) • (4) 1G/10G SFP/SFP+ Slots

Technical Specifications

General	
Network Ports:	<ul style="list-style-type: none"> • (24) 10/100/1000Mbps PoE/PoE+ Copper Ports • (4) 1G/10G SFP/SFP+ Slots • 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"> • 10/100Mbps: 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 Parameters:	<ul style="list-style-type: none"> • Store and Forward (Full Wire Speed) • 598Gbps Switching Capacity • 95.23Mpps Throughput • 32K MAC Table Entries • 32M Buffer Memory • Supports Jumbo Frames up to 10K
LED Indicators:	Power, System, Link/Activity, PoE (SGX75270MP)

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PoE & Power Supply (SGX72870MP)	
PoE Ports:	<ul style="list-style-type: none"> • Ports 1 - 24 • IEEE802.3af/at • 15.4W or 25.5W of PoE Power
PoE Management:	<ul style="list-style-type: none"> • PoE Working Status • Delay Start • PoE Output Priority Configuration • Total Power Limit of PoE Power Supply • PoE Operation & Time Scheduling • PoE Output Power Allocation
PoE Pin-Out:	<ul style="list-style-type: none"> • Pins 1 & 2 (+) • Pins 3 & 6 (-)
Max Power per Port:	30W
Total Power:	600W
Input Power:	100-240VAC, 50/60Hz, 6.6A
Power Consumption:	<ul style="list-style-type: none"> • Standby: <30W • Full Load: <600W
Management Features	
Interfaces:	<ul style="list-style-type: none"> • Console/AUX Modem/Telnet/SSH2.0 CLI • Web Management (HTTPS) • Download & Management on FTP, TFTP, Xmodem, SFTP, SNMP V1/V2C/V3 • One-Key Recovery • NTP, System Work Log, Ping Test • Cable Diagnosis, LLDP • CPU Instant Utilization Status View • NMS - Smart Network Management Systems Platform (LLDP+SNMP)
Layer 3 Features:	<ul style="list-style-type: none"> • L2+ Network Management • IPV4/IPV6 Management • L3 Soft Routing Forwarding • Static Route
DHCP:	Client, Snooping, Server, Relay
Port Mirroring:	Port-Based Bidirectional Data Mirroring
Port Aggregation:	<ul style="list-style-type: none"> • LACP, Static Aggregation • Max of 14 Aggregation Groups with 8 Ports per Group
Spanning Tree:	STP, RSTP, MSTP

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Management Features Cont.	
Multicast:	<ul style="list-style-type: none"> • IGMP Snooping v1/v2, Max 1024 Multicast Groups • Fast Log Out • MLD Snooping v1/v2 • Multicast VLAN
VLAN:	<ul style="list-style-type: none"> • Port-Based VLAN • 802.1Q Tag-Based VLAN, up to 4K active VLANs • MAC-Based VLAN • Protocol Based VLAN • Voice VLAN • Q-in-Q Configuration • Port Configuration of Access, Trunk, Hybrid
QoS:	<ul style="list-style-type: none"> • Diff-Serv QoS, Priority Mark/Remark • 8 Output Queues for Each Port • 802.1p/DSCP Priority Mapping • Queue Scheduling Algorithm (SP, WRR, SP+WRR) • Flow-Based Packet Filtering • Flow-Based Rate Limiting
ACL:	<ul style="list-style-type: none"> • L2 to L4 Packet Filtering • Mac-Based ACL • Destination MAC Address • IP Source • Destination IP • IP Protocol Type • TCP/UDP Port • TCP/UDP Port Range • VLAN • Port-Based Issuing ACL
Security:	<ul style="list-style-type: none"> • User Hierarchical Management and Password Protection • SSH 2.0, SSL, Port Isolation, ARP Message Speed Limit • Broadcast Storm Control • IEEE802.1X & MAC Address Authentication • MAC Black Holes • IP Source Protection • AAA & RADIUS • MAC Learning Limit • ARP Inspection • Anti-DOS Attack • IP-MAC-VLAN-Port Binding

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Physical Parameters	
Dimensions:	<ul style="list-style-type: none">• 17.32 x 11.42 x 1.75 inches (440 x 290 x 44.5mm) (WxDxH)• Weight: 10.14 Pounds• Desktop or 19" Rack-Mount, 1U High
Temperature:	<ul style="list-style-type: none">• Operating: -20°C to 55°C• Storage: -40°C to 80°C• Humidity: 5% to 90% relative, non-condensing
Certifications:	<ul style="list-style-type: none">• CE Mark• FCC Part 15, Class B• RoHS

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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	SMF	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.