

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

**SGX75270M  
SGX75270MP**

**Product Features**

- (48) 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            |   |
|-------------------|---|
| <b>SGX75270M</b>  | <ul style="list-style-type: none"> <li>• (48) 10/100/1000Mbps Copper Ports</li> <li>• (4) 1G/10G SFP/SFP+ Slots</li> </ul>                        |
| <b>SGX75270MP</b> | <ul style="list-style-type: none"> <li>• (48) 10/100/1000Mbps PoE/PoE+ Copper Ports (600W Budget)</li> <li>• (4) 1G/10G SFP/SFP+ Slots</li> </ul> |

**Technical Specifications**

| General                      |  |
|------------------------------|--|
| <b>Network Ports:</b>        | <ul style="list-style-type: none"> <li>• (48) 10/100/1000Mbps PoE/PoE+ Copper Ports</li> <li>• (4) 1G/10G SFP/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 Parameters:</b> | <ul style="list-style-type: none"> <li>• Store and Forward (Full Wire Speed)</li> <li>• 598Gbps Switching Capacity</li> <li>• 131Mpps Throughput</li> <li>• 32K MAC Table Entries</li> <li>• 32M Buffer Memory</li> <li>• Supports Jumbo Frames up to 10K</li> </ul>                                       |
| <b>LED Indicators:</b>       | Power, System, Link/Activity, PoE (SGX75270MP)   |

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| PoE & Power Supply (SGX75270MP) |   |
|---------------------------------|---|
| <b>PoE Ports:</b>               | <ul style="list-style-type: none"> <li>Ports 1 - 48</li> <li>IEEE802.3af/at</li> <li>15.4W or 25.5W of PoE Power</li> </ul>   |
| <b>PoE Management:</b>          | <ul style="list-style-type: none"> <li>PoE Working Status</li> <li>Delay Start</li> <li>PoE Output Priority Configuration</li> <li>Total Power Limit of PoE Power Supply</li> <li>PoE Operation &amp; Time Scheduling</li> <li>PoE Output Power Allocation</li> </ul>   |
| <b>PoE Pin-Out:</b>             | <ul style="list-style-type: none"> <li>Pins 1 &amp; 2 (+)</li> <li>Pins 3 &amp; 6 (-)</li> </ul>  |
| <b>Max Power per Port:</b>      | 30W   |
| <b>Total Power:</b>             | 600W  |
| <b>Input Power:</b>             | 100-240VAC, 50/60Hz, 6.6A   |
| <b>Power Consumption:</b>       | <ul style="list-style-type: none"> <li>Standby: &lt;35W</li> <li>Full Load: &lt;600W</li> </ul>   |
| Management Features             |   |
| <b>Interfaces:</b>              | <ul style="list-style-type: none"> <li>Console/AUX Modem/Telnet/SSH2.0 CLI</li> <li>Web Management (HTTPS)</li> <li>Download &amp; Management on FTP, TFTP, Xmodem, SFTP, SNMP V1/V2C/V3</li> <li>One-Key Recovery</li> <li>NTP, System Work Log, Ping Test</li> <li>Cable Diagnosis, LLDP</li> <li>CPU Instant Utilization Status View</li> <li>NMS - Smart Network Management Systems Platform (LLDP+SNMP)</li> </ul> |
| <b>Layer 3 Features:</b>        | <ul style="list-style-type: none"> <li>L2+ Network Management</li> <li>IPV4/IPV6 Management</li> <li>L3 Soft Routing Forwarding</li> <li>Static Route</li> </ul>  |
| <b>DHCP:</b>                    | Client, Snooping, Server, Relay   |
| <b>Port Mirroring:</b>          | Port-Based Bidirectional Data Mirroring   |
| <b>Port Aggregation:</b>        | <ul style="list-style-type: none"> <li>LACP, Static Aggregation</li> <li>Max of 26 Aggregation Groups with 8 Ports per Group</li> </ul>   |
| <b>Spanning Tree:</b>           | STP, RSTP, MSTP   |

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

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**Technical Specifications**

| Physical Parameters    |  |
|------------------------|--|
| <b>Dimensions:</b>     | <ul style="list-style-type: none"><li>• 17.32 x 11.42 x 1.75 inches (440 x 290 x 44.5mm) (WxDxH)</li><li>• Weight: 10.58 Pounds</li><li>• Desktop or 19" Rack-Mount, 1U High</li></ul> |
| <b>Temperature:</b>    | <ul style="list-style-type: none"><li>• Operating: -20°C to 55°C</li><li>• Storage: -40°C to 80°C</li><li>• Humidity: 5% 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 B</li><li>• RoHS</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<br>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<br>Rx: 1550nm | SMF   | 10km                                | LC        | -3 ~ -9   | < -21   | 0 to 70° C |
| GB10SFB  | 1000         | Tx: 1550nm<br>Rx: 1310nm | SMF   | 10km                                | LC        | -3 ~ -9   | < -21   | 0 to 70° C |
| GB20SFA  | 1000         | Tx: 1310nm<br>Rx: 1550nm | SMF   | 20km                                | LC        | -3 ~ -8   | < -23   | 0 to 70° C |
| GB20SFB  | 1000         | Tx: 1550nm<br>Rx: 1310nm | SMF   | 20km                                | LC        | -3 ~ -8   | < -23   | 0 to 70° C |
| GB40SFA  | 1000         | Tx: 1310nm<br>Rx: 1550nm | SMF   | 40km                                | LC        | -3 ~ +2   | < -23   | 0 to 70° C |
| GB40SFB  | 1000         | Tx: 1550nm<br>Rx: 1310nm | SMF   | 40km                                | LC        | -3 ~ +2   | < -23   | 0 to 70° C |
| GB60SFA  | 1000         | Tx: 1310nm<br>Rx: 1550nm | SMF   | 60km                                | LC        | 0 ~ +5    | < -24   | 0 to 70° C |
| GB60SFB  | 1000         | Tx: 1550nm<br>Rx: 1310nm | SMF   | 60km                                | LC        | -2 ~ +4   | < -25   | 0 to 70° C |
| GB80SFA  | 1000         | Tx: 1310nm<br>Rx: 1550nm | SMF   | 80km                                | LC        | -2 ~ +3   | < -26   | 0 to 70° C |
| GB80SFB  | 1000         | Tx: 1550nm<br>Rx: 1310nm | SMF   | 80km                                | LC        | -2 ~ +3   | < -26   | 0 to 70° C |
| 10GBMM   | 10G          | 850nm                    | MMF   | 62.5µ: 30m<br>50µ: 80m<br>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.**