

## 24-Port 10/100/1000Base Pick-a-Port Managed Modular Switch

**SG71090A**

### Product Features

- 3-Slot Modular Design for Configuration Flexibility
- Wide Variety of 8-Port Modules
- Supports 10/100/1000Base Copper Ports
- Supports 100/1000Base SFP Modules
- Supports 100Base On-Board Optics
- High Bandwidth
- Low Latency
- Supports Multiple VLAN Protocols
- Advanced Security
- Web/CLI/Telnet/SNMP Management
- Redundant Power Options Available
- See Page 4 for Available SFP Modules



### Model Numbers

Model Number	Description
<b>SG71090A</b>	• 3-Slot Managed Modular Switch Chassis
<b>SG71890A</b>	• 8-Port Module: (8) 10/100/1000Base Copper Ports
<b>SG71893A</b>	• 8-Port Module: (8) 100Base Fiber Ports, MM, ST Connectors, 2 km
<b>SG71894A</b>	• 8-Port Module: (8) 100Base Fiber Ports, MM, SC Connectors, 2 km
<b>SG71895A</b>	• 8-Port Module: (8) 100Base Fiber Ports, SM, SC Connectors, 20 km
<b>SG71896A</b>	• 8-Port Module: (8) 100/1000Base SFP Slots
<b>SG71893-26A</b>	• 8-Port Module: (2) 10/100/1000Base Copper Ports (6) 100Base Fiber Ports, MM, ST Connectors, 2 km
<b>SG71894-26A</b>	• 8-Port Module: (2) 10/100/1000Base Copper Ports (6) 100Base Fiber Ports, MM, SC Connectors, 2 km
<b>SG71895-26A</b>	• 8-Port Module: (2) 10/100/1000Base Copper Ports (6) 100Base Fiber Ports, SM, SC Connectors, 20 km
<b>SG71896-44A</b>	• 8-Port Module: (4) 10/100/1000Base Copper Ports (4) 100/1000Base SFP Slots

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## Technical Specifications

Network	
<b>Protocols:</b>	<ul style="list-style-type: none"> <li>IEEE802.3, 802.3i, 802.3u, 802.3ab, 802.3z, 802.3x</li> </ul>
<b>Ports:</b>	<ul style="list-style-type: none"> <li>10/100/1000Base Copper Ports, Auto-Negotiate, Auto-MDI/MDI-X</li> <li>SFP Slots Support 100Base or 1000Base SFP Modules</li> <li>100Base On-Board Optics: Multi-Mode (ST or SC), Single-Mode (SC)</li> <li>Management: RJ45 Console Port, USB 2.0</li> </ul>
<b>Cables:</b>	<ul style="list-style-type: none"> <li>10/100/1000Mbps: Cat.5 or Higher up to 100m</li> <li>100Base Fiber: 50/125μ/62.5/125μ/9/125μ</li> <li>1000Base Fiber: 50/125μ/62.5/125μ/9/125μ</li> </ul>
<b>Switching:</b>	<ul style="list-style-type: none"> <li>Store and Forward Transfer Mode</li> <li>48G Switching Capacity</li> <li>71.4Mpps Throughput</li> <li>Supports Jumbo Frames up to 10K</li> <li>12M Packet Buffer</li> <li>16K MAC Address Table</li> </ul>
Management Features	
<b>Management:</b>	<ul style="list-style-type: none"> <li>LLDP</li> <li>User Management and Login Authentication</li> <li>SNMP V1/V2C/V3</li> <li>Web Management (HTTP1.1, HTTPS)</li> <li>Syslog</li> <li>RMON: Alarm, Event, History</li> <li>NTP</li> <li>Temperature Monitoring</li> <li>Ping, Tracert</li> <li>SFP DDM Functions</li> <li>TFTP Client</li> <li>Console/AUX Modem/Telnet/SSH2.0 CLI</li> <li>Download &amp; Management on FTP, TFTP, Web</li> </ul>
<b>DHCP:</b>	<ul style="list-style-type: none"> <li>Client, Snooping</li> </ul>
<b>Port Mirroring:</b>	<ul style="list-style-type: none"> <li>Many-to-One</li> </ul>
<b>ARP:</b>	<ul style="list-style-type: none"> <li>Table Aging</li> </ul>
<b>Ring Network Protocol:</b>	<ul style="list-style-type: none"> <li>STP, RSTP, MSTP</li> <li>G.8032 ERPS Protocol, Single Ring, Sub Ring, Other Ring</li> </ul>
<b>Port Aggregation:</b>	<ul style="list-style-type: none"> <li>1G/2.5G</li> <li>Static and Dynamic</li> </ul>

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## Technical Specifications

Management Features Cont.	
<b>Multicast:</b>	<ul style="list-style-type: none"> <li>• IGMP V1, V2, V3</li> <li>• IGMP Snooping</li> </ul>
<b>VLAN:</b>	<ul style="list-style-type: none"> <li>• MAC Based VLAN</li> <li>• IP Based VLAN</li> <li>• Protocol Based VLAN</li> <li>• Q-in-Q Configuration: Port/VLAN/Flow Based</li> <li>• Port Configuration of Access, Trunk, Hybrid</li> </ul>
<b>QoS:</b>	<ul style="list-style-type: none"> <li>• QoS Class, Remarking</li> <li>• Ingress Port-Based Rate-Limit</li> <li>• Egress Port-Based Rate-Limit</li> <li>• Policy-Based QoS</li> <li>• Supports SP, WRR Queue Scheduling</li> </ul>
<b>ACL:</b>	<ul style="list-style-type: none"> <li>• IP Standard ACL</li> <li>• MAC Extend ACL</li> <li>• IP Extend ACL</li> </ul>
<b>Security:</b>	<ul style="list-style-type: none"> <li>• IEEE802.1x &amp; MAC Address Authentication, Radius Service</li> <li>• Port Security</li> <li>• IP Source Protection</li> <li>• IP-MAC-Port Binding</li> <li>• ARP Inspection</li> <li>• ARP Packet Filtering</li> <li>• Port Isolation</li> </ul>
<b>Port Features</b>	<ul style="list-style-type: none"> <li>• IEEE802.3x Flow Control</li> <li>• Traffic Statistics</li> <li>• Isolation</li> <li>• Network Storm Suppression</li> </ul>
General	
<b>Installation:</b>	<ul style="list-style-type: none"> <li>• 19" Rack-Mountable (1U)</li> <li>• Desktop</li> <li>• Shelf</li> </ul>
<b>Power Supply:</b>	<ul style="list-style-type: none"> <li>• Input: 100 ~ 240VAC, 50/60Hz</li> <li>• Input: 36-75VDC (Optional)</li> </ul>
<b>Power Consumption:</b>	<ul style="list-style-type: none"> <li>• ≤30W</li> </ul>
<b>Operating Temperature:</b>	<ul style="list-style-type: none"> <li>• -10 ~ +50°C, Humidity: 10-90% Working, 5-95% Storage</li> </ul>
<b>Dimensions:</b>	<ul style="list-style-type: none"> <li>• 17.32 x 11.02 x 1.73in / 440 x 280 x 44mm (L x W x H)</li> </ul>
<b>Warranty:</b>	<ul style="list-style-type: none"> <li>• Lifetime</li> </ul>

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**Available SFP Modules**

Model	Speed (Mbps)	Wavelength	Media	Distance	Connector	TX Power	RX Sens	Temp
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	SMF	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.**