

**SICOM6496G (Coming soon)**96G+4T Port Modular Layer 3  
Managed Core Industrial Ethernet Switch

CE, FCC, RoHS

**Overview**

SICOM6496G is a modular layer 3 managed industrial Ethernet switch with 96 10/100/1000Base-T(X) ports or 96 Gigabit SFP slots, and 4 10,000Base (XFP) ports specially designed for core backbone network. It supports layer 3 data full wire-speed forwarding and full duplex or half duplex flow control. And SICOM6496G also supports DT-Ring protocols and the recovery time is less than 50ms.

**Features**

- 1.Modularized switch, up to 96 Gigabit SFP slots or 10/100/1000Base-TX ports, 4 10Gigabit (XFP) ports
- 2.Supports DT-Ring protocols (recovery time<50ms), STP/RSTP/MSTP, VRRP
3. Supports QoS, VLAN, SNMP MIB V1/V2/V3, RMON (Group 1, 2, 3, 9)
4. Supports static routing protocol and dynamic routing protocols such as RIP v1/v2, OSPF v2, BEIGRP, BGP v4
5. Supports various multicast routing protocols such as PIM-SM, PIM-DM, DVMRP
6. Hardware and Layer 3 data message forwarding with full wire-speed
7. Powerful ACL, hardware supports data filtering from L2-L7
8. Broadcast storm auto-detection and control, supports IGMP V1/V2/V3 message detection, effectively preventing broadcast overflow
9. Supports full/half duplex flow control with the speed limitation of the step of 64K
10. Supports QinQ to realize double VLAN security
11. Highly reliable network with DAP (defense system against DOS attacks) function
12. Multiple management methods such as CLI, TELNET, WEB, SNMP
13. Operating temperature: -10 to 65°C (14 to 149°F)
14. IP30 protection class

**Technical Specifications****Standard**IEEE802.3  
IEEE 802.3u  
IEEE 802.3xIEEE802.3z  
IEEE802.3ab  
IEEE802.3ae  
IEEE802.3ad  
IEEE802.1p/q  
IEEE802.1d  
IEEE802.1w  
IEEE802.1x  
Store and forward switching mode**Interface**Gigabit Ethernet Ports: Up to 96 Gigabit SFP slots or 10/100/1000Base-T(X), RJ45 ports  
10 Gigabit Ethernet Ports: Up to 4 10Gigabit XFP ports  
CONSOLE Interface: RS232, RJ45  
LED Indicators: RUN, ALARM, PWR1, PWR2, LINK, ACT**Performance**Backplane switching capacity: 272G  
Layer 3 switching and forwarding rate: 203Mpps  
MAC address table size: 512K  
Routing address table size: 512K**Cable**Twisted Pair: 0-100m  
Multi Mode Fiber: 1310nm, 0-5km (100Mbps); 1310nm, 0-2km (1000Mbps)  
Single Mode Fiber: 1310nm, 0-40km; 1550nm, 0-80km**Power Requirements**Power input: 36-60VDC, 220VAC  
Power consumption: <300W**Physical Characteristics**Protection class: IP30  
Installation: Rack mounting  
Dimensions (WxHxD): 482.6x440x450mm (19x17.32x17.72 in.)**Environmental Limits**Operating Temperature: -10 to 65°C (14 to 149°F)  
Storage Temperature: -45 to 85°C (-49 to 185°F)  
Ambient Relative Humidity: 0 to 95% (non-condensing)**Approvals**IEC61000-4-2 (ESD): ±8KV contact discharge, ±15KV air discharge  
IEC61000-4-3 (RS): 10V/M (80-1000MHz)  
IEC61000-4-4 (EFT): power line ±4KV, data line ±2KV  
IEC61000-4-5 (Surge): power line ±4KV CM/±2KV DM, data line ±2KV  
IEC61000-4-6 (CS): 3V (10KHZ-150KHZ), 10V (150KHZ-80MHZ)  
IEC61000-4-8 (Power frequency magnetic field): 100A/m cont. 1000A/m, 1s to 3s  
IEC61000-4-12/18 (Damped oscillatory wave): 2.5KV CM, 1KV DM  
IEC61000-4-10 (Damped oscillatory): 30A/m  
IEC61000-4-16 (Common mode conduct): 30V cont. 300V, 1s  
FCC CFR47 Part 15/EN55022: Class A&B  
IEC61000-6-2 (Industrial Standards), IEC61850-3 (Substations), IEEE1613 (Electric Power Substations), EN50121-4 (Railway Applications)

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**MTBF**

35 years

**Warranty**

5 years

**Ordering Information**

<b>SICOM6496G</b>	
MS6496G-CHASSIS	10Gigabit port layer 3 core Ethernet switch, Chassis of SICOM6496G, offering 20 expansion slots: 2 for switching module, 4 for power supply module, 2 for 10 Gigabit interface module, 12 for Gigabit interface module
SM6.5-POWER-220VAC	Power supply module of 220VAC
SM6.5-POWER-48VDC	Power supply module of 48VDC
SM6.5-MSU	Switching engine
SM6.5-8GE	Interface module with 8 x 10/100/1000Base-T(X) ports, RJ45 connector
SM6.5-4GX-4GE	Interface module with 4 x Gigabit SFP slots and 4 x 10/100/1000Base-T(X) ports, RJ45 connector
SM6.5-8GX	Interface module with 8 x Gigabit SFP slots
SM6.5-4TE-XFP	Interface module with 4 x 10Gigabit XFP slots
SM6.5-2TE-XFP	Interface module with 2 x 10Gigabit XFP slots
<b>SFP Modules</b>	
SM-GSFP-TX/RJ45	SFP module with 1 x 10/100/1000M port, RJ45, 100m
SM-GSFP-SX/LC-550	SFP module with 1 x 1000M multimode port, LC, 850nm, 550m
SM-GSFP-LX/LC-550	SFP module with 1 x 1000M multimode port, LC, 1310nm, 550m
SM-GSFP-LX/LC-10	SFP module with 1 x 1000M single mode port, LC, 1310nm, 10km
SM-GSFP-LX/LC-15	SFP module with 1 x 1000M single mode port, LC, 1310nm, 15km
SM-GSFP-LH/LC-40	SFP module with 1 x 1000M single mode port, LC, 1310nm, 40km
SM-GSFP-ZX/LC-40	SFP module with 1 x 1000M single mode port, LC, 1550nm, 40km
SM-GSFP-ZX/LC-60	SFP module with 1 x 1000M single mode port, LC, 1550nm, 60km
SM-GSFP-ZX/LC-80	SFP module with 1 x 1000M single mode port, LC, 1550nm, 80km
SM-XFP-SX/LC-300	XFP module with 1 x 10G multimode port, LC, 850nm, 300m
SM-XFP-LX/LC-10	XFP module with 1 x 10G single mode port, LC, 1310nm, 10km
SM-XFP-ZX/LC-40	XFP module with 1 x 10G single mode port, LC, 1550nm, 40km

Power supply: 220VAC, 36-60VDC

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