

SICOM6496G96G+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: 272Gbps
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)

CE, FCC, ROHS

MTBF

35 years

Warranty

5 Years

Ordering Information

SICOM6496G	
MS6496G-CHASSIS	Chassis of SICOM6496G, offering 20 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
SM6.5-4GX-4GE	Interface module with 4 x Gigabit SFP slots and 4 x 10/100/1000Base-T(X) ports, RJ45
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
SFP Modules	
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

Please visit our website: www.kyland.cn for the latest updates.