

SICOM6524 (Coming soon)

24G Port Layer 3 Core Industrial Ethernet Switch



CE, FCC, ROHS

Overview

SICOM6524 is a 24G port layer 3 core industrial Ethernet switch specifically designed to operate stably in electrically harsh and climatically demanding industrial environments. It offers up to 24 Gigabit SFP ports or 10/100/1000Base-T(X) ports. The redundant function of optical fiber network, independent entire network management channel and entire network real-time management system provide multiplex guarantee for reliable operation of the system.

Features

1. Up to 24 Gigabit SFP or 10/100/1000Base-T(X) RJ45 ports
2. Supports DT-Ring protocols (recovery time < 50ms), STP/RSTP/MSTP, VRRP
3. Supports IGMP Snooping, port mirroring, QoS, VLAN
4. Supports static routing protocol and dynamic routing protocols such as RIP v1/v2, OSPF v2, BEIGRP, BGP v4
5. Supports various multicasting 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. Supports DHCP, BOOTP and other address-attaining ways
9. Auto-detection and broadcast storm control, supports IGMP v1/v2 message detection, effectively preventing broadcast overflow
10. Supports full and half duplex flow control with the speed limitation of the step of 64K
11. Supports QinQ to realize double VLAN security
12. Highly reliable network with DAP (defense system against DOS attacks) function
13. Improves network monitoring ability through RMON (Group 1, 2, 3 and 9)
14. Supports multiple management methods including CLI, TELNET, WEB, SNMP V1/V2/V3 and OPC
15. Unified management software for SICOM series: Kyvision3.0
16. Complies with EMC industrial level 4 regulated in IEC61850-3
17. Operating temperature: -40 to 65°C (-40 to 149°F)
18. Ribbed aluminum case for heat dissipation (patent)
19. 1U rack mounted
20. IP40 protection class

Technical Specifications**Standard**

IEEE802.3
IEEE 802.3u
IEEE 802.3x
IEEE802.3z
IEEE802.3ab
IEEE802.3ae
IEEE802.3ad
IEEE802.1p/q
IEEE802.1d
IEEE802.1w
IEEE802.1x
Store and forward switching mode

Network

Ring, chain, star and tangent ring network topology

Interface

Gigabit Ethernet Ports:

- 1) 20 x 10/100/1000Base-T(X) RJ45 ports; 4 combo Gigabit SFP slots or 10/100/1000Base-T(X) ports
- 2) 20 Gigabit SFP slots; 4 combo Gigabit SFP slots or 10/100/1000Base-T(X) ports
- 3) 12 x 10/100/1000Base-T(X) RJ45 ports; 12 Gigabit SFP slots

CONSOLE Interface: RS232, RJ45

LED Indicators: RUN, PWR1, PWR2; LINK/ACT (GE1-GE24); LINK, ACT (GX1-GX24)

Performance

Backplane switching capacity: 128G

Layer 3 packet switching and forwarding rate: 96Mpps

Routing table size: 512K

MAC address table size: 512K

Cable

Twisted Pair: 0~100m

Multi Mode Fiber: 1310nm 0~2km

Single Mode Fiber: 1310nm, 0~40km; 1550nm, 0~80km

Power Requirements

Power input: 24VDC (18~36VDC), 48VDC (36~72VDC), 110VAC/110VDC/220VAC/220VDC (85~264VAC/77~300VDC), dual redundant power supplies (optional)

Power terminal: 5-Pin 5.08mm-spacing plug-in terminal block

Power consumption: < 50W

Physical Characteristics

Casing: Ribbed aluminum case (fanless)

Protection Class: IP40

Installation: Rack mounting

Dimensions (WxHxD): 482x44x386mm (18.98x 1.73x15.20 in.)

Weight: 5.5kg (12.125 pound)

Environmental Limits

Operating Temperature: -40 to 65°C (-40 to 149°F)

Storage Temperature: -40 to 85°C (-40 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)
 EC61000-4-4 (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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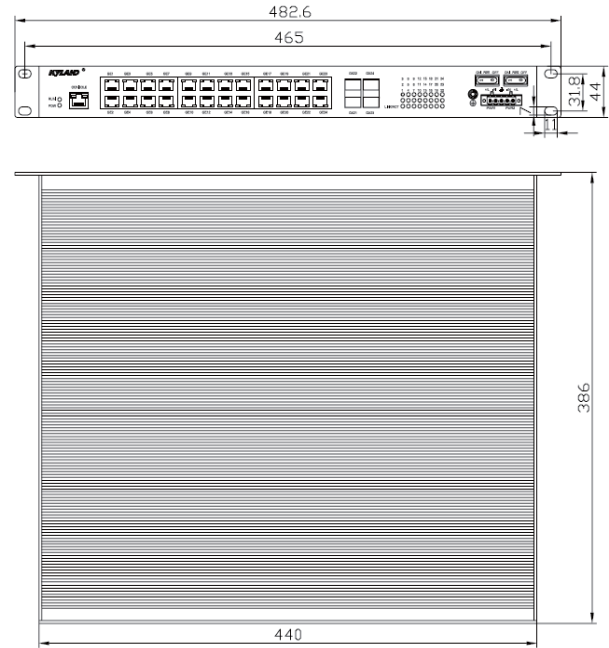
MTBF

35 years

Warranty

5 years

Mechanical Drawing



Ordering Information

Model	Description
SICOM6524-4GX/GE-20GE	IEC61850-3 Full Gigabit Managed Rackmount Ethernet Switch with 4 combo 10/100/1000Base-T(X) RJ45 ports or Gigabit SFP slots for adding Gigabit SFP modules, 20 x 10/100/1000Base-T(X) RJ45 ports, single power supply, -40 to 85°C operating temperature
SICOM6524-20GX-4GX/GE	IEC61850-3 Full Gigabit Managed Rackmount Ethernet Switch with 20 Gigabit SFP slots for adding Gigabit SFP modules, 4 combo 10/100/1000Base-T(X) RJ45 ports or Gigabit SFP slots for adding Gigabit SFP modules, single power supply, -40 to 85°C operating temperature
SICOM6524-12GX-12GE	IEC61850-3 Full Gigabit Managed Rackmount Ethernet Switch with 12 Gigabit SFP slots for adding Gigabit SFP modules, 12 x 10/100/1000Base-T(X) RJ45 ports, single power supply, -40 to 85°C operating temperature
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

Power supply: 24VDC, 48VDC, 110VAC/110VDC/220VAC/220VDC, dual redundant power supplies (optional)

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