

SICOM6524

Layer 3 24G Port Full Gigabit Managed Rack Mountable IEC61850 Backbone Switch



- 24G full Gigabit fiber/RJ45 optional ports
- Supports RIP, OSPF, BGP layer 3 routing protocols
- Supports DT-Ring protocols
- Patented heat dissipation technology, fanless design
- IP40 protection class
- EMC performance reaches industrial level 4



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 & Benefits

- Redundancy Technology: supports DT-Ring protocols (recovery time < 50ms), MSTP and VRRP
- Multicast Protocol: supports IGMP, IGMP Snooping, PIM-SM, PIM-DM, DVMRP
- Routing Protocol: supports RIPv1/v2, OSPFv2, BGPv4 and static routing protocol
- Network Partition: supports VLAN, GVRP
- Service Quality: supports QoS
- Bandwidth Management: supports port trunking, port speed limit, broadcast storm control
- Network Management and Monitoring: supports CLI, Telnet, WEB management methods, Kyvision centralized management, SNMPv1/v2, RMON, LLDP, SNMP, DHCP
- Network Security: supports ACL
- Device Management: supports FTP/TFTP upgrade, also supports Syslog upload and download
- Device Maintenance: supports port mirroring
- Alarm Output: supports port and ring alarms

Technical Specifications

Standard

IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE802.3ac, IEEE 802.3ad, IEEE 802.3z, IEEE 802.3x, IEEE 802.1p, IEEE 802.1Q, IEEE 802.1s

Protocols

DT-Ring, DT-Ring+, DT-VLAN, MSTP, VRRP;
IGMP, IGMP Snooping, PIM-SM, PIM-DM, DVMRP;
RIPv1/v2, OSPFv2, BGPv4;
VLAN, GVRP;
Telnet, HTTP, SNMPv1/v2, RMON, LLDP, BootP, SNMP, DHCP server/relay/client;
ACL;
FTP, TFTP, Syslog;
ARP, QoS, LACP

Switch Properties

Priority Queues: 8
Number of VLANs: 4K
VLAN ID: 1-4094
Number of Multicast Groups: 256
Routing Table: 30K
MAC Table: 16K
Packet Buffer: 512Mbit
Packet Forwarding Rate: 35.7Mpps
Switching Delay: < 5μs

Interface

Gigabit Ethernet Port Combinations:

- 1) 4 combo 1000Base SFP slots or 10/100/1000Base-TX ports, and 20 10/100/1000Base-TX ports
 - 2) 4 combo 1000Base SFP slots or 10/100/1000Base-TX ports, and 20 1000Base SFP slots
- Console Port: RS232 (RJ45 connector)

LED

LEDs on Front Panel:
Running LED: Run
Power LED: PWR1, PWR2
Interface LED: Link, ACT

Transmission Distance

Twisted Pair: 100m (Standard CAT5, CAT5e network cable)
Multi Mode Fiber: 850nm, 550m (1000M)
Single Mode Fiber: 1310nm, 10km/40km (1000M)
1550nm, 60km/80km (1000M)

Power Requirements

Power Input: 24VDC (18-36VDC), 48VDC (36-72VDC), 110VDC (77-154VDC), 220VAC/DC (85-264VAC/120-370VDC)
Power Terminal: 5-pin 5.08mm-spacing plug-in terminal block
Power Consumption: <58.6W
Overload Protection: Support
Reverse Connection Protection: Support
Redundancy Protection: Support

Physical Characteristics

Housing: Aluminum, fanless
Protection Class: IP40
Dimensions (W×H×D): 482.6×44×375 mm (19×1.73×14.76 in.)
Weight: 5.5kg (12.125 pound)
Mounting: 19 inch 1U Rack mounting

Environmental Limits

Operating Temperature: -40 to 85°C (-40 to 185°F)
Storage Temperature: -40 to 85°C (-40 to 185°F)
Ambient Relative Humidity: 5 to 95% (non-condensing)

MTBF

342,000 hrs

Warranty

5 years

Approvals

CE, FCC

Industrial Standard

EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A

EMS:

IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)
IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)
IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV
IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV
IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)
IEC61000-4-8 (Power frequency magnetic field): 100A/m (cont.), 1000A/m (1s-3s)
IEC61000-4-9 (Pulsed magnetic field): 1000A/m
IEC61000-4-10 (Damped oscillation): 100A/m
IEC61000-4-12 (Oscillatory wave): 2.5kV/CM, 1kV/DM
IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)

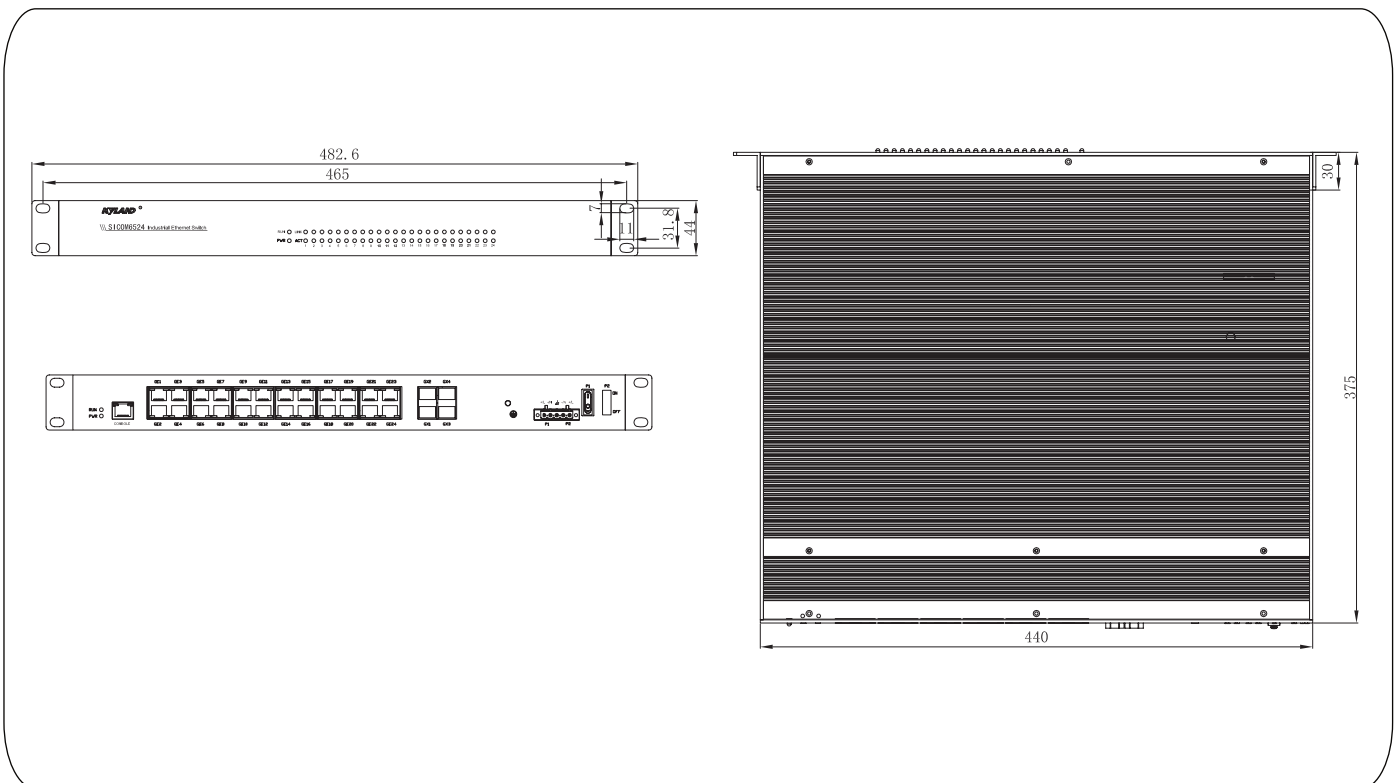
Machinery:

IEC60068-2-6 (Vibration)
IEC60068-2-27 (Shock)
IEC60068-2-32 (Free Fall)

Industry: IEC61000-6-2

Power: IEC61850-3, IEEE1613
Railway: EN50155, EN50121-4
Traffic Control: NEMA TS-2

Mechanical Drawing



Ordering Information

Model	Gigabit Ethernet Port			Power Supply			
	1000Base SFP	1000M Combo	10/100/1000Base-TX	18-36VDC	36-72VDC	77-154VDC	85-264VAC/ 120-370VDC
SICOM6524-4GX/GE-20GE	--	4	20				
SICOM6524-4GX/GE-20GX	20	4	--				

Please Select

Accessories

Model	Description
Gigabit SFP module	Refer to Kyland industrial Gigabit SFP list
DT-FCZ-RJ45-01	RJ45 dustproof shield

Order Codes

SICOM6524- _____ - _____ - _____
 Slot PS1 PS2

Slot: Gigabit SFP/RJ45 and Combo Ports

4GX/GE-20GE=4 10/100/1000Base TX RJ45 or 1000Base Gigabit SFP Combo ports, 20 10/100/1000Base-TX RJ45 ports
4GX/GE-20GX=4 10/100/1000Base TX RJ45 or 1000Base Gigabit SFP Combo ports, 20 Gigabit SFP ports

PS1 and PS2: Power Supply 1 and 2

24= 24VDC (18-36VDC)
48= 48VDC (36-72VDC)
110=110VDC (77-154VDC)
220A=220VAC/220VDC (85-264VAC/120-370VDC)
XX=No power supply (PS2 only)

Example Order Codes

SICOM6524-4GX/GE-20GX-220A-220A
4 Gigabit combo ports, 20 Gigabit SFP ports and dual redundant 85-264VAC/120-370VDC power supplies.

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