

SICOM3008-M12

8 Port Robust Managed Industrial Ethernet Switch



CE, FCC, UL, RoHS

Chinese Military Certification

Overview

The SICOM3008-M12 robust managed industrial Ethernet switch which is specially designed for military usage has 8 10/100Base-TX ports with M12 connectors. It meets Chinese military standards GJB150 and GJB151A-97, support dual redundant power supply and Kyvision management software. Its protection class is IP43 and operation temperature is -40 to 85°C.

Features

1. 8 x 10/100Base-TX with M12 connectors.
2. Support DT-Ring protocol suite (recovery time<50ms) and RSTP/STP(IEEE802.1w/d)
3. Flexible network topology supports ring, link, star and tangent ring topologies.
4. Advanced ring topology protocol avoiding broadcast storm.
5. Support IGMP Snooping, TRUNK, port mirroring, QoS, VLAN and ACL
6. Support multiple management functions including CLI, TELNET, WEB, SNMP V1/V2 and OPC etc.
7. Support centralized management software, network topology generated automatically.
8. Safe MAC and port binding function, support static FDB
9. Band width setting function enables port band width limitation.
10. Improve network monitoring ability through RMON(group 1,2,3,and 9)
11. Broadcast storm control
12. EMC industrial level 4, specially designed for harsh electromagnetic interference environment.
13. Abundant power supply options, dual redundant power supply with no switching break
14. Support relay alarm output port alarming the lose of power
15. Unified management software for SICOM series: Kyvision3.0.
16. Meets the requirements of Chinese national military standard GJB150 and GJB151A-97
17. Working temperature: -40 to 85°C(-40 to 185°F)
18. Ribbed Aluminum housing for heat dissipation, fanless design
19. Rack mounted (19 Inch 1U)
20. IP43 protection class

Technical Specifications**Standard**

IEEE 802.3u
IEEE 802.3
IEEE 802.3x
IEEE 802.3z

IEEE 802.3ab
IEEE 802.1d
IEEE 802.1w
IEEE 802.1p
IEEE 802.1q
Store and forward switching mode

Network

Ring, chain, star and tangent ring network topology.

Performance

MAC Address Table Size: 8K
Backplane switching capacity: 8.8G

Interface

8 x 10/100Base-TX, M12 connector, full/half duplex, auto-MDI/MDI-X
CONSOLE interface: RS232, M12

Cable

Twisted Pair: 100m (Standard CAT5 and CAT5e network cable)

Power Requirements

Power input: 24VDC (18-36VDC), 48VDC(36-72VDC), 110VDC(88-165VDC), 220VDC/AC
Input terminals: M12
Power consumption: <15W

Physical Characteristics

Casing: IP43 protection class
Fanless design
Dimensions(WxHxD): 482.6x44x245 mm (19x1.73x9.65 in)
Weight: 3000g (6.614 pound)
Installation: Rack mounted, 19 inch, 1U

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: 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): ±4KV power lead, ±2KV data lead
IEC61000-4-5(Surge): power lead ±4KV CM/ ±2KV DM, data lead ±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

Chinese Military Standard GJB151A-97, GJB150 parameters
CE101: 25Hz-10KHz power lead conducted emission
CE102: 10KHz-10MHz power lead conducted emission
CS101: 25Hz-50KHz power lead conducted susceptibility
CS114: 10KHz-400MHz bulk cable injection conducted susceptibility
CS116: 10KHz-100MHz cable and power cable damped sine transient conduction susceptibility
RE101: 25Hz-100kHz magnetic field radiation emission
RE102: 10kHz-18GHz electric field radiation emission
RS101: 25Hz-100kHz magnetic field radiation susceptibility

RS103: 10kHz-40GHz electric field radiation susceptibility
GJB150-11-86: Anti salt fog
GJB150-6-86: Temperature
GJB150-16-86: Vibration

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MTBF

35 years

Warranty

5 Years

Ordering Information

Model	Description
SICOM3008-8TX-M12	8 x 10/100Base-TX with M12 connectors

Power Supply: 24VDC, 48VDC, 110VDC, 220VAC/DC

Mechanical Drawing

