KYLAND

Industrializing the Ethernet
Simplifying Industrial Communication

SICOM3009
9 Port Managed Industrial Ethernet Switch

Version: 101214

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9 Port Managed
Industrial Ethernet Switch

CE, FCC, RoHS
Chinese State Grid
Certification

Overview

SICOM3009 is a low power consumption managed industrial Ethernet switch specially designed by KYLAND for industrial applications. It supports 3 100Base-FX ports and 6 10/100Base-T(X) ports. Its fanless ribbed casing design and ability to handle a wide range of temperatures ensure high reliability in extreme industrial environments. Its full load power consumption is less than 5W, and it has passed Mine Safety Certification. Based on Kyvision3.0, CLI, WEB interface, it offers concentrative management. The state-of-the-art OPC software enables the switch's management embedded in various industrial systems.

Features

• Supports 3 100Base-FX ports and 6 10/100Base-T(X) RJ45 ports
• Approved by mining safety certification, low power consumption, less than 5W under full load
• Supports DT-Ring protocols (Recovery time<50ms), RSTP/STP (IEEE802.1w/d) redundant protocol
• Flexible network topologies: ring, chain, star and tangent ring
• Advanced ring topology protocol avoiding broadcast storm
• Supports IGMP Snooping, port mirroring, QoS, VLAN and link aggregation
• Supports port speed limitation and special broadcast storm control
• Safe MAC and port binding function, static FDB supported
• Bandwidth configuration controls port bandwidth properly
• Supports multiple management methods including CLI, TELNET, WEB, SNMP V1/V2/V3 and OPC
• EMC industrial level 4, specially designed for harsh electromagnetic interference environment
• Abundant power supply options, dual redundant DC power inputs
• Relay alarm output for the loss of power
• Provides alarm input port, AC/DC power supply information can be displayed in the management interface
• Provides system reset and reboot buttons for easy operation
• External output of LED signals, specially design for coal mining applications
• Operating temperature: -40 to 85°C (-40 to 185°F)
• Ribbed aluminum case for heat dissipation (patent), fanless design
• DIN-Rail and Wall mounting installation
• IP40 protection class
• Unified management software for SICOM series: Kyvision3.0

Technical Specifications

Standard
IEEE802.3
IEEE 802.3u
IEEE 802.3x
IEEE802.1d
IEEE802.1w
IEEE802.1p
IEEE802.1q
Store and forward switching mode

Network
Ring, chain, star and tangent ring network topology

Interface
100M Fiber Ports: 3 x 100Base-FX ports, FC/SC/ST
10/100M Copper Ports: 6 x 10/100Base-T(X) ports, RJ45
CONSOLE Interface: RS232, RJ45
Alarm Output Port: 3-Pin 3.81mm-spacing terminal block, 250VAC/220VDC Max; 2A Max; 60W Max (standard poroducts)
Alarm Input Port: 3-Pin 3.81mm-spacing terminal block; when pin1 input high-level voltage, the system is under AC power supply; when pin1 input low-level voltage, the system is under DC power supply (Coal mining safety products)
LED Indicators: RUN1, RUN2, PWR1, PWR2; LINK/ACT (7-9); LINK/ACT, 10M/100M (1-6)
System reset button: one
System reboot button: one

Performance
Backplane switching capacity: 9.6G
MAC Address Table Size: 8K

Cable
Twisted Pair: 0-100m
Multi Mode Fiber: 1310nm, 0-5km (100Mbps)
Single Mode Fiber: 1310nm, 0-40km; 1550nm, 0-80km

Power Requirements
Power input: 24VDC (9-36VDC), 48VDC (36-72VDC),dual redundant power inputs, 110VAC/110VDC (85-165VAC/66-154VDC), 220VAC/220VDC (176-300VAC/246-370VDC), single power input
Power terminal: 5-Pin 5.08mm-spacing plug-in terminal block
Power consumption: <5W

Physical Characteristics
Casing: Ribbed aluminum case (fanless)
Protection class: IP40
Installation: DIN-Rail or wall mounting
Dimensions (WxHxD): 55.4 x 139 x 119.5mm (2.18x5.47x4.70 in.)
Weight: 0.6kg (1.323 pound)

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): 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)
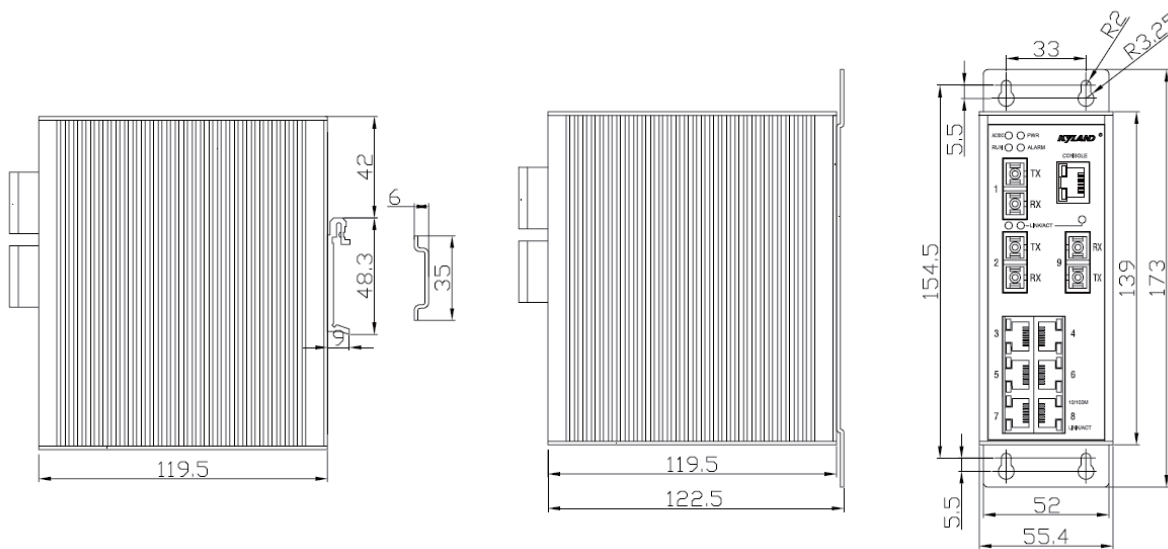
CE, FCC, ROHS, Chinese State Grid Certification

MTBF
35 years

Warranty
5 years

Mechanical Drawing

Ordering Information

Model	Description
SICOM3009-3S-6T	Managed Ethernet switch with 3 100Base-FX ports, single mode, FC/SC/ST connector, 6 10/100Base-T(X) ports, RJ45 connector, -40 to 85℃ operating temperature
SICOM3009-3M-6T	Managed Ethernet switch with 3 100Base-FX ports, multi mode, FC/SC/ST connector, 6 10/100Base-T(X) ports, RJ45 connector, -40 to 85℃ operating temperature
SICOM3009-2S-6T	Managed Ethernet switch with 2 100Base-FX ports, single mode, FC/SC/ST connector, 6 10/100Base-T(X) ports, RJ45 connector, -40 to 85℃ operating temperature
SICOM3009-2M-6T	Managed Ethernet switch with 2 100Base-FX ports, multi mode, FC/SC/ST connector, 6 10/100Base-T(X) ports, RJ45 connector, -40 to 85℃ operating temperature

Power supply: 24VDC, 48VDC, dual redundant power inputs; 110VAC/110VDC, 220VAC/220VDC single power input

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