

**SICOM3016**20 Port Managed
Industrial Ethernet SwitchCE, FCC, RoHS
China State Grid
Certification**Overview**

SICOM3016 is a high-performance network-managed industrial Ethernet switch specially designed by KYLAND for industrial applications. It's DIN-Rail installation and supports max 4 100Base-FX and 16 10/100Base-T(X) ports. Its high-performance switch engine, solid and closed case, high-efficient single-rib-shape case for heat dissipation without using fans, overcurrent, overvoltage and EMC protection at power input side, and excellent EMC protection of RJ45 port allow SICOM3016 to work in harsh and dangerous industrial environments. The redundant function of optical fiber network, independent entire network management channel, dual redundant power inputs function, and powerful entire network real-time management system provide multiplex guarantee for reliable operation of the system.

Features

- Supports 4 100Base-FX ports and 16 10/100Base-T(X) RJ45 ports
- 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 trunking, port mirroring, QoS, VLAN, ACL
- Supports port speed limitation and special broadcast storm control
- Safe MAC and port binding function, static FDB supported
- Bandwidth configuration controls port bandwidth properly
- Improves network monitoring ability through RMON (group 1, 2, 3 and 9)
- Supports multiple management methods including CLI, TELNET, WEB, SNMP V1/V2 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
- 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: 4 x 100Base-FX ports, FC/SC/ST
10/100M Copper Ports: 16 x 10/100Base-T(X) ports, RJ45
CONSOLE Interface: RS232, RJ45
Alarm Contact: 2-Pin 3.81mm-spacing plug-in terminal block, 250VAC/350VDC Max; 120mA Max
LED Indicator: RUN, ALARM, PWR1, PWR2; LINK/ACT (17-20); LINK/ACT, 10M/100M (1-16)

Performance

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

Cable

Twisted Pair: 0-100m (Standard CAT5, CAT5e network cable)
Multi Mode Fiber: 1310nm, 0-5km (100Mbps)
Single Mode Fiber: 1310nm, 0-40km; 1550nm, 0-80km

Power Requirements

Power input: 24VDC (18-36VDC), 48VDC (36-72VDC), 110VDC (66-154VDC), 220VAC/DC (132-300VAC/176-400VDC)
Power terminal:
3-Pin 3.81mm-spacing plug-in terminal block (24VDC, 48VDC);
3-Pin 7.62mm-spacing plug-in terminal block (110VDC, 220VAC/DC)
Power consumption: <15W

Physical Characteristics

Casing: Ribbed aluminum case (fanless)
Protection class: IP40
Installation: DIN-Rail
Dimensions (WxHxD): 75 x 165 x 123mm
Weight: 1.2kg

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

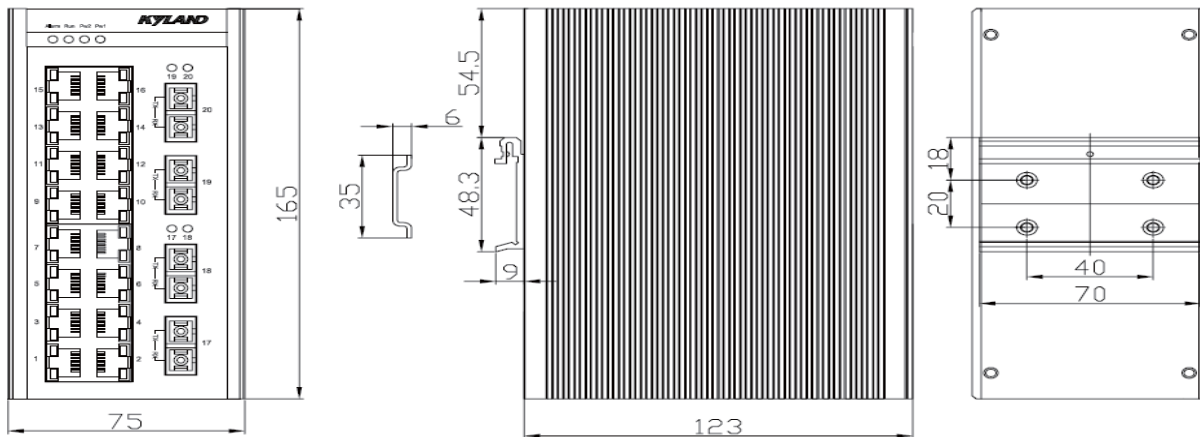
MTBF

35 years

Warranty

5 Years

Mechanical Drawing



Ordering Information

Model	Description
SICOM3016-4S(M)-16T	4 x 100Base-FX ports, SM/MM, FC/SC/ST, 16 x 10/100Base-T(X) ports, RJ45
SICOM3016-3S(M)-16T	3 x 100Base-FX ports, SM/MM, FC/SC/ST, 16 x 10/100Base-T(X) ports, RJ45
SICOM3016-2S(M)-16T	2 x 100Base-FX ports, SM/MM, FC/SC/ST, 16 x 10/100Base-T(X) ports, RJ45
SICOM3016-S(M)-16T	1 x 100Base-FX port, SM/MM, FC/SC/ST, 16 x 10/100Base-T(X) ports, RJ45
SICOM3016-16T	16 x 10/100Base-T(X) ports, RJ45
SICOM3016-4S(M)-8T	4 x 100Base-FX ports, SM/MM, FC/SC/ST, 8 x 10/100Base-T(X) ports, RJ45
SICOM3016-3S(M)-8T	3 x 100Base-FX ports, SM/MM, FC/SC/ST, 8 x 10/100Base-T(X) ports, RJ45
SICOM3016-2S(M)-8T	2 x 100Base-FX ports, SM/MM, FC/SC/ST, 8 x 10/100Base-T(X) ports, RJ45
SICOM3016-S(M)-8T	1 x 100Base-FX port, SM/MM, FC/SC/ST, 8 x 10/100Base-T(X) ports, RJ45
SICOM3016-8T	8 x 10/100Base-T(X), RJ45

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

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