SICOM3016B

16+4G Port Layer 2 Managed DIN-Rail Switches

- 4 Gigabit Combo ports, 16 10/100Base-T(X) ports
- Supports DT-Ring and RSTP protocols
- Intelligent network management
- Provide 24V, 48V, 220V optional power input model
- IEC61850-3 & IEEE1613 (pending)

>> Overview

SICOM3016B 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 combo Gigabit SFP slots or 10/100/1000Base-T(X) ports and 16 10/100Base-T(X) ports. Its solid metal case, single-rib-shape fanless design for high-efficient heat dissipation, overcurrent, overvoltage and EMC protection at power input side, and excellent EMC protection of RJ45 port allow SICOM3016B to reliably work in harsh and dangerous industrial environments. The SICOM3016B series support DT-Ring (recovery time<50ms), RSTP, VLAN, multicast, QoS, and many other Layer 2 software features, and support CLI, Telnet, Web management methods, Kyvision centralized management based on SNMPv1/v2c.

>> Software Functions

Switching

Support VLAN, PVLAN
Support port trunking
Support port flow control
Support port speed limit
Support broadcast storm control

Redundancy

Support DT-Ring, DT-Ring+, DT-VLAN with the recovery time<50ms
Support RSTP

Multicast

Support IGMP Snooping,
Support GMRP
Support static multicast

Service Quality

Support ACL
Support SP, WRR queue scheduling

Management & Maintenance

Support Console, Telnet, WEB management methods
Support SNMPv1/v2c, Kyvision centralized management
Support software upgrade by FTP
Support IP/MAC conflict, power, port and ring alarm
Support RMON
Support port mirroring
Support Syslog
Support LLDP
Support Link-check

Clock Management

Support SNTP Client

>> Technical Specification

Technical Parameters

Standard
▼ IEEE 802.3i(10Base-T)
▼ IEEE 802.3u(100Base-TX)
▼ IEEE 802.3ab(1000Base-T)
▼ IEEE 802.3z(1000Base-SX/LX)
▼ IEEE 802.3x(Flow control)
▼ IEEE 802.1p(Class of Service)
▼ IEEE 802.1Q(VLAN)
▼ IEEE 802.1w(RSTP)

Switch Properties

Priority Queues	4
Number of VLANs	256
VLAN ID	1–4093
Number of Multicast Groups	256
MAC Table	8K
Packet Buffer	4Mbit
Packet Forwarding Rate	8.3Mpps
Switching Delay	<10μs

Interface

Gigabit Port
▼ 1000Base-X, SFP slot
▼ 10/100/1000Base-T(X), RJ45 port

Fast Ethernet Port	10/100Base-T(X), RJ45 port
Console Port	RS232,RJ45 connector

Alarm Contact
▼ 3-pin 3.81mm-spacing plug-in terminal block, 250VAC/220VDC Max,2A Max

LED

LEDs on Front Panel
▼ Running LED: Run
▼ Alarm LED: Alarm
▼ Power LED: PWR1,PWR2
▼ Interface LED: Link/ACT,Speed (RJ45 port); Link/ACT(Fiber port)

Power Requirements

Power Input
▼ 48VDC
▼ 24VDC
▼ 100-240VAC, 50/60Hz; 220VDC

Power Terminal
▼ 5-pin 5.08mm-spacing plug-in terminal block

Power Consumption	<14W
Overload Protection	Support
Reverse Protection	Support
Redundancy Protection	Support (24/48VDC)

Physical Characteristics

Housing	Metal
Cooling	Natural convection, fanless
Protection Class	IP40
Dimension	75mm×165mm×123mm(W×H×D)
Weight	1.2Kg
Mounting	DIN-Rail or Panel Mounting

Environmental Limits

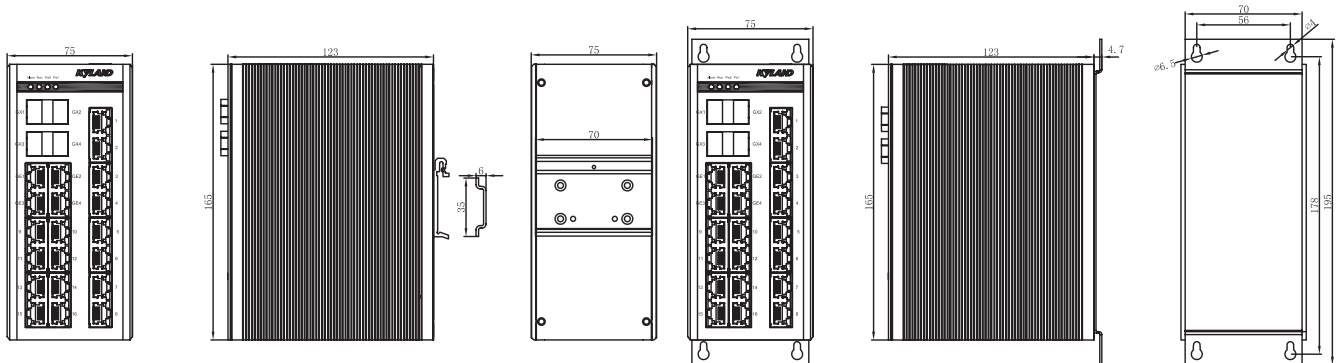|	
Operating Temperature	-40℃ to +85℃
Storage Temperature	-40℃ to +85℃
Ambient Relative Humidity	5 - 95% (non-condensing)

Warranty

MTBF	334,038 hrs
Warranty	5 years

Industrial Standards

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) 10V(150kHz–80MHz)
Machinery
▼ IEC60068-2-6 (Vibration)
▼ IEC60068-2-27 (Shock)
▼ IEC60068-2-32 (Free Fall)

≫ Mechanical Drawing

Ordering Information

	SICOM3016B-Ports-PS1-PS2
	SICOM3016B-Ports-PS1
Ports	
4G16T	4×1000Base-X,10/100/1000Base-T(X) Combo ports; 16×10/100Base-T(X) RJ45 ports
2G2GE16T	2×1000Base-X, 10/100/1000Base-T(X) Combo ports; 2×10/100/1000Base-T(X) RJ45 ports; 16×10/100Base-T(X) RJ45 ports
PS1-PS2	
L1-L1	48VDC, redundant power inputs
L3-L3	24VDC, redundant power inputs
PS1	
H1	100-240VAC, 50/60Hz; 220VDC, single power input

Accessories

Accessory model	Description
Gigabit SFP Module	Please refer to the Gigabit SFP module ordering table
DT-BGAZ-05	Panel for panel mounting
DT-FCZ-RJ45-01	Dustproof cover for RJ45 port