

## SICOM3016B





- 4 Gigabit ports and 16 10/100Base-TX ports
- Supports DT-Ring protocols and MSTP
- Compact DIN-Rail product
- Intelligent network management
- Advanced security features
- Provides power failure alarm
- EMC performance reaches industrial level 4
- CE, FCC certificates







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 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 SICOM3016B 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 & Benefits

- 1. Redundancy Technology: supports DT-Ring protocols (recovery time<50ms) and MSTP
- 2. Multicast Protocol: supports IGMP Snooping, GMRP and static multicast
- 3. Network Partition: supports VLAN, PVLAN
- 4. Service Quality: supports QoS
- 5. Bandwidth Management: supports port trunking, port speed limit, broadcast storm control
- 6. Network Management and Monitoring: supports CLI, Telnet, WEB management methods, Kyvision centralized management, SNMPv1/v2/v3, RMON, LLDP, SNTP, DHCP
- 7. Network Security: supports DT-Psec, SSH, SSL, ACL
- 8. Device Management: supports FTP upgrade
- 9. Device Maintenance: supports port mirroring
- 10. Alarm Output: supports IP/MAC conflicts, port and ring alarms
- 11. Special Function: supports Link Check and Loop Status Check

# Technical Specifications

#### Standard

IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.1p, IEEE 802.1Q, IEEE 802.1s

#### **Protocols**

DT-Ring, DT-Ring+, DT-VLAN, MSTP;

IGMP Snooping, GMRP;

VLAN, PVLAN;

Telnet, HTTP, HTTPS, SNMPv1/v2/v3, RMON, LLDP, SNTP, DHCP server; DT-Psec, SSH, SSL, ACL;

FTP;

ARP. OoS

#### **Switch Properties**

Priority Oueues: 4

Number of VLANs: 256

VLAN ID: 1-4094

Number of Multicast Groups: 256

MAC Table: 8K

Packet Buffer: 4Mbit

Packet Forwarding Rate: 8.3Mpps

Switching Delay: <5µs

#### Interface

Gigabit Ethernet Port Combinations:

1) 4 combo 1000Base SFP slots or 10/100/1000Base-TX ports

2) 2 combo 1000Base SFP slots or 10/100/1000Base-TX ports and 2

10/100/1000Base-TX ports

Fast Ethernet Ports: 16 10/100Base-TX RJ45 ports

Console Port: RS232 (RJ45 connector)

Alarm Contact: 3-pin 3.81mm-spacing plug-in terminal block, 250VAC/220VDC Max, 2A Max, 60W Max

#### LED

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

#### **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:

24DC (18-36VDC), 48DC (36-72VDC), 220AC/DC (120-300VDC/85-264VAC)

Power Terminal:

5-pin 5.08mm-spacing plug-in terminal block

Power Consumption: <13.3W

Overload Protection: Support

Reverse Connection Protection: Support Redundancy Protection: Support

#### **Physical Characteristics**

Housing: Aluminum, fanless Protection Class: IP40 Dimensions (W×H×D):

75×165×123mm (2.95×6.50×4.84 in.)

Weight: 1.2kg (2.646 pound)

Mounting: DIN-Rail or Panel 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**

334,038 hrs

#### Warrantv

5 years

### Approvals

CE, FCC

#### **Industrial Standard**

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)

IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)

Machinery:

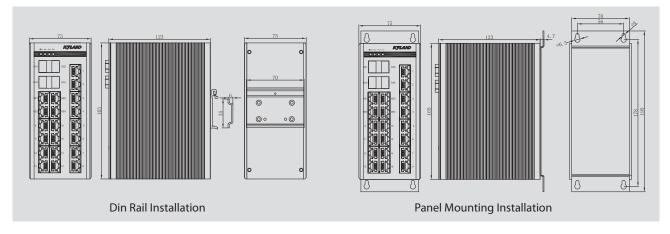
IEC60068-2-6 (Vibration)

IEC60068-2-27 (Shock)

IEC60068-2-32 (Free Fall)

Industry: IEC61000-6-2 Railway: EN50155, EN50121-4 Traffic Control: NEMA TS-2

## Mechanical Drawing



# >>> Ordering Information

SICOM3016B -Ports

4GX/GE-16T = 4 Gigabit combo ports, 16 10/100Base-TX RJ45 ports **2GX/GE-2GE-16T** = 2 Gigabit combo ports, 2 10/100/1000Base-TX RJ45 ports, 16 10/100Base-TX RJ45 ports

#### **PS: Power Supply**

**24DC** = 18-36VDC, dual redundant power inputs 48DC = 36-72VDC, dual redundant power inputs **220AC/DCW** = 77-300VDC/85-264VAC, single power input

#### **Example Order Codes**

SICOM3016B-4GX/GE-16T-24DC

4 Gigabit combo ports, 16 10/100Base-TX RJ45 ports, 24DC (18-36VDC) dual redundant power inputs