

SICOM3216

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



- 2 Gigabit Combo ports, 2 fast Ethernet fiber/RJ45 optional ports, 14 10/100Base-T(X) ports
- Supports DT-Ring, DRP and RSTP protocols
- Supports one-key recovery
- Support cable check
- Provides Mini USB Console port
- IP40 protection class
- UL508 (pending), Class I Div 2 (pending), CE, FCC certificates



Overview

SICOM3216 is one of Kyland green Ethernet switch series which supports max 18 ports including 2 Gigabit combo ports, 14 10/100Base-TX ports and 2 Fast Ethernet fiber/RJ45 optional ports. The SICOM3216 series support DRP (recovery time<20ms), DT-Ring (recovery time<50ms), RSTP, VLAN, multicast, QoS, SSH, SSL and many other Layer 2 software features, and support CLI, Telnet, Web management methods, Kyvision centralized management based on SNMPv1/v2c/v3. It is specially designed for harsh environments with -40°C to +85°C wide temperature range, EMC level 4, IP40 protection class, strong vibration-resistant mounting clip for DIN-Rail installation, and can be deployed in wind power, distribution network automation, transportation, oil & gas and many other industrial applications.

Software Functions

Switching

- Support VLAN, PVLAN
- Support GVRP
- 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 DRP with the recovery time<20ms
- Support STP/RSTP

Multicast

- Support IGMP Snooping,

- Support GMRP
- Support static multicast

Network Security

- Support HTTPs/SSL
- Support SSH
- Support TACACS+
- Support IEEE802.1X
- Support MAC address binding with switch ports

Service Quality

- Support SP, WRR queue scheduling

Management & Maintenance

- Support Console, Telnet, WEB management methods
- Support SNMPv1/v2c/v3, Kyvision centralized management
- Support software upgrade by FTP/TFTP
- Support power, port and ring alarm
- Support RMON
- Support port mirroring
- Support cable check
- Support Syslog
- Support LLDP
- Support Link-check

IP Management

- Support DHCP server/snooping/client, DHCP Option 82

Clock Management

- Support SNTP Client

Technical Specification

Technical Parameters

Standard

- ▼ IEEE 802.3i(10Base-T)
- ▼ IEEE 802.3u(100Base-TX and 100Base-FX)
- ▼ IEEE 802.3ab(1000Base-T)
- ▼ IEEE 802.3z(1000Base-X)
- ▼ IEEE 802.3x(Flow control)
- ▼ IEEE 802.1p(Class of Service)
- ▼ IEEE 802.1Q(VLAN)
- ▼ IEEE 802.1w(RSTP)
- ▼ IEEE802.1X

Switching Properties

Priority Queues	4
Number of VLANs	256
VLAN ID	1-4093
Number of Multicast Groups	256
MAC Table	8K
Packet Buffer	2Mbit
Packet Forwarding Rate	5.4Mpps
Switching Delay	<10μs

Interface

Gigabit Port

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

Fast Ethernet Port

- ▼ 100Base-FX, SM/MM, SC/ST/FC connector
- ▼ 10/100Base-T(X), RJ45 port

Console Port Mini USB

Alarm Contact

- ▼ 3-pin 5.08mm-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
- ▼ Ring LED: Ring
- ▼ Interface LED: Link/ACT, Speed (RJ45 port); Link/ACT(Fiber port)

Button

Reset: Reboot and restore default configuration

Power Requirements

Power Input

- ▼ 24-48VDC
- ▼ 12-24VDC

Power Terminal

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

Power Consumption	<18W
Overload Protection	Support
Reverse Protection	Support
Redundancy Protection	Support

Physical Characteristics

Housing	Metal
Cooling	Natural convection, fanless
Protection Class	IP40
Dimension	88mm×135mm×137mm(W×H×D)
Weight	1.25Kg
Mounting	DIN-Rail or Panel Mounting

Environmental Limits

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

Warranty

MTBF	465,000 hrs
Warranty	5 years

Approvals

UL508 (Pending), Class I Div 2 (Pending), CE,FCC

Industrial Standard

EMI

- ▼ FCC CFR47 Part 15,EN55022/CISPR22,Class A

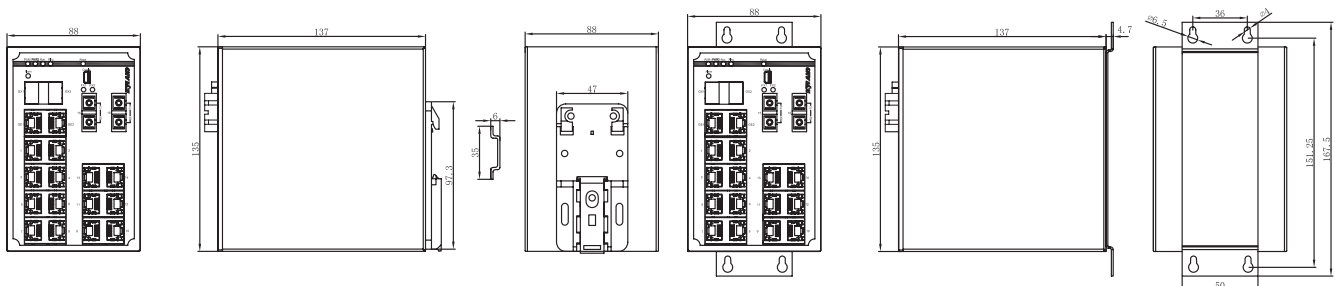
EMS

- ▼ 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

SICOM3216-Ports-Connector-PS1-PS2

Ports	
16T	16×10/100Base-T(X) RJ45 ports
2S14T	2×100Base-FX, single mode fiber ports;14×10/100Base-T(X) RJ45 ports
2M14T	2×100Base-FX, multi mode fiber port;14×10/100Base-T(X) RJ45 ports
2G16T	2×1000Base-X,10/100/1000Base-T(X) Combo ports;16×10/100Base-T(X) RJ45 ports
2G2S14T	2×1000Base-X,10/100/1000Base-T(X) Combo ports;2×100Base-FX, SM fiber ports;14×10/100Base-T(X) RJ45 ports
2G2M14T	2×1000Base-X,10/100/1000Base-T(X) Combo ports;2×100Base-FX, MM fiber port;14×10/100Base-T(X) RJ45 ports
Connector	
100M fiber port specifications	
SC05	SC connector, multi-mode, 1310nm, 5km
ST05	ST connector, multi-mode, 1310nm, 5km
FC05	FC connector, multi-mode, 1310nm, 5km
SC40	SC connector, single-mode, 1310nm, 40km
ST40	ST connector, single-mode, 1310nm, 40km
FC40	FC connector, single-mode, 1310nm, 40km
SC60	SC connector, single-mode, 1310nm, 60km
SC80	SC connector, single-mode, 1550nm, 80km
None	No 100M fiber port
PS	
L2-L2	24-48VDC, redundand power inputs
L5-L5	12-24VDC, redundand power inputs

» Accessories

Accessory model	Description
Gigabit SFP Module	Please refer to the Gigabit SFP module ordering table
DT-BGAZ-02	Panel for panel mounting
DT-FCZ-RJ45-01	Dustproof cover for RJ45 port
DT-XL-Mini USB -USB-2m	Mini USB to USB cable for Console management, 2m