

SICOM3170



7+3G Port Layer 2 Managed Traffic Ethernet Switch

- 2 Gigabit SFP slots, one 10/100/1000Base-TX port and seven 10/100Base-TX ports
- Supports DT-Ring , RSTP for network redundancy
- Rear panel provides PCB Golden Finger for power connection
- EMC performance reaches industrial level 4
- CE, FCC certification



Overview

SICOM3170 is an ultra low power consumption (less than 8 Watts), Managed Industrial Ethernet switch. This dual slot Ethernet switch is designed to slide into an open Detector Chassis Slot of any Signal cabinet. This Managed Industrial Ethernet Switch is widely deployed in SCADA and OSS networks around world. This proven ultra low power consumption switch (Green Product - RoHS) features 2 SFP Gigabit ports, Seven 10/100 RJ45 Ports and One 10/100/1000 RJ45 Port. The SICOM3170 Industrial Signal Control switch is the first of a series of Traffic Ethernet Switches Series from Kyland and a continuation of our "Green Ethernet" product line.

Software Functions

Switching Function

Supports VLAN and PVLAN
Supports port aggregation
Supports flow control
Support port rate limit
Supports broadcast storm suppression

Redundancy Protocol

Supports DT-Ring, DT-Ring+, and the recovery time<50 ms
Supports STP/RSTP

Multicast Protocol

Supports IGMP snooping
Supports static multicast

Security

Supports IEEE 802.1x
Supports HTTPS/SSL
Supports SSH
Supports RADIUS
Supports TACACS+
Supports user grading
Supports Manage VLAN
Supports port security

Service Quality Management

Supports SP and WRR queuing

Management & Maintenance

Supports Console, Telnet, and Web management methods
Supports SNMPv1/v2c/v3 and can managed by Kyvision
Supports software update and file transfer over FTP/SFTP
Supports port alarm and ring alarm
Supports RMON
Supports port mirroring
Supports Syslog
Supports LLDP
Supports Link-check

IP Address Management

Supports DHCP server/client

Clock Management

Supports SNTP client

Product Specifications

Technical Specifications

Standard

- ▼ IEEE 802.3i (10Base-T)
- ▼ IEEE 802.3u (100Base-T)
- ▼ IEEE 802.3ab (1000Base-T)
- ▼ IEEE 802.3ad (port aggregation)
- ▼ IEEE 802.3z (1000Base-SX/LX)
- ▼ IEEE 802.3x (flow control)
- ▼ IEEE 802.1p (priority)
- ▼ IEEE 802.1Q (VLAN)
- ▼ IEEE 802.1d (STP)
- ▼ IEEE 802.1w (RSTP)
- ▼ IEEE 802.1x

Switch Properties

Priority queue	4
Number of VLANs	256
VLAN ID	1 ~ 4093
Number of multicast groups	256
MAC table	8K
Packet buffer	4Mbit
Packet forwarding rate	5.5Mpps
Switching delay	<10μs

Interface

Gigabit ports

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

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

LED

LED on front panel

- ▼ Running LED: Run
- ▼ Power LED: PWR
- ▼ Port LED: Link/ACT, LINK, ACT
- ▼ Port speed LED: Speed

Power Requirements

Power input	12DCW(9-36VDC),
Power terminal	PCB Golden Finger
Power consumption	<8W
Overload protection	Support
Reverse connection protection	Support
Redundancy protection	Not support

Physical Characteristics

Housing	Metal
Cooling	Natural cooling, fanless
Protection Class	IP40
Dimensions(WxHxD)	
▼ 58mmx114mmx205mm (2.28x4.49x8.07 in.)	
Weight	<0.8Kg (1.764 pound)
Mounting	Inserted into a rack through rail slots

Environmental Limits

Operating temperature	-40°C ~ +85°C (-40°F - 185°F)
Storage temperature	-40°C ~ +85°C (-40°F - 185°F)
Ambient Relative Humidity	5% - 95% (non-condensing)

Quality Assurance

MTBF	370,000 hrs
Warranty	5 years

Approvals

CE, FCC

Please visit www.kyland.com for the latest news

Industry Standard

EMI

- ▼ FCC CFR47 Part 15, EN55022 Class A&B

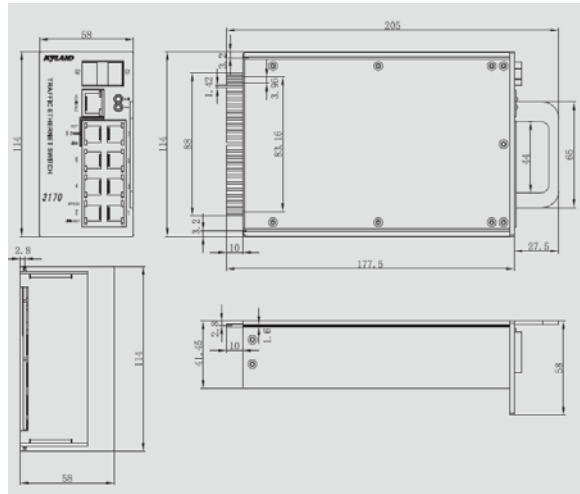
EMS

- ▼ IEC61000-4-2(ESD) ±8kV(contact), ±15kV(air)
- ▼ IEC61000-4-3(RS) 10V/m(80MHz-1GHz)
- ▼ 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)
- ▼ IEC61000-4-8(power frequency magnetic field) 100A/m(cont.), 1000A/m(1s-3s)
- ▼ IEC61000-4-9(pulsed magnetic field) 1000A/m
- ▼ IEC61000-4-10(damped oscillation) 30A/m
- ▼ IEC61000-4-12(oscillatory wave) 2.5kV/CM, 1kV/DM
- ▼ IEC61000-4-16(common mode conduction) 30V(cont.), 300V(1s)

Machinery

- ▼ IEC60068-2-6 (vibration),
- ▼ IEC60068-2-27 (shock),
- ▼ IEC60068-2-32 (free fall)

» Mechanical Drawing



» Ordering Information

SICOM3170-Ports-PS

Ports

2GX1GE7T 2x1000Base-X, 10/100/1000Base-T(X) SFP port; 1x10/100/1000Base-T(X) RJ45 port; 7x10/100Base-T(X) RJ45 port

PS

L5 12DCW(9-36VDC)