

# SICOM3170



## 7+3G Port Layer 2 Managed Traffic Ethernet Switches

- 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

## Network 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, Kyvision centralized management  
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 (Class of Service)
- ▼ 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	12-24VDC(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)	
▼ 58mm×114mm×205mm (2.28×4.49×8.07 in.)	
Weight	<0.8Kg (1.764 pound)
Mounting	Inserted into a rack through rail slots

### Environmental Limits

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

### Quality Assurance

MTBF	370,000 hrs
Warranty	5 years

### Approvals

CE, FCC

### Industry Standard

EMI

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

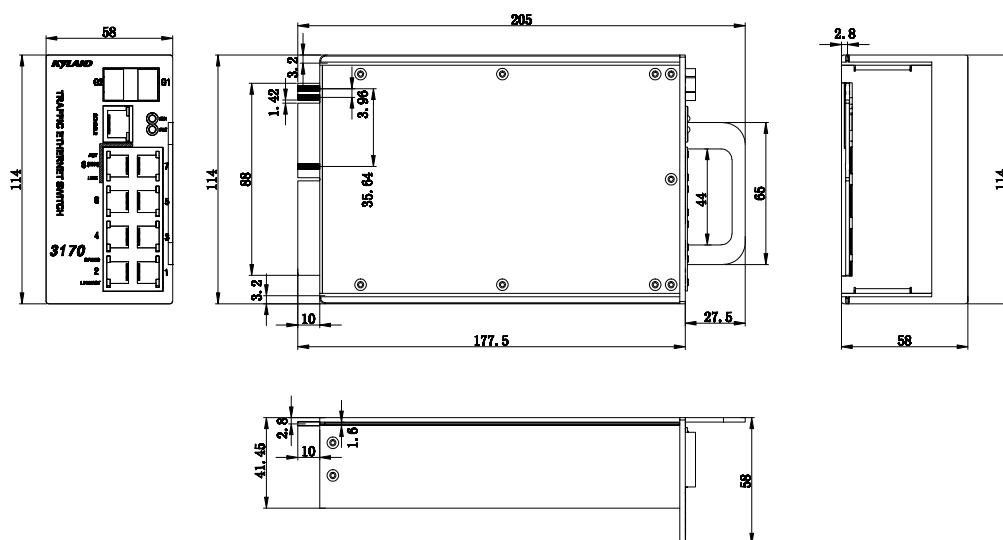
EMS

- ▼ 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 12-24VDC(9-36VDC)