

# SICOM3172

**Preliminary**



## EoVDSL & Serial Device Server Integrated Traffic Industrial Ethernet Switch

- 2 EoVDSL ports, 4 10/100Base-TX RJ45 ports and 2 RS232/RS485 serial ports
- Supports DT-Ring , RSTP for network redundancy
- Supports many security functions
- Rear panel provides PCB Golden Finger for power connection
- EMC performance reaches industrial level 4

## Overview

SICOM3172 is an ultra low power consumption (less than 10 Watts), managed EoVDSL & serial device server integrated traffic industrial Ethernet switch. This dual slot Ethernet switch is designed to slide into an open Detector Chassis Slot of any signal cabinet. This Traffic Ethernet Switch is widely deployed in SCADA and OSS networks around world. This proven ultra low power consumption device features two EoVDSL ports with RJ11 connector, four 10/100Base-TX Ethernet port, and two serial ports being selectable for RS232, RS422 and RS485 serial connectivity. The SICOM3172 Managed Traffic Ethernet Serial Server is the third of a series of Traffic Ethernet Switches Series form Kyland and a continuation of our green energy efficiency 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

### Serial Port Function

Supports RS232/422/485 mode  
Supports flow control  
Support TCP/UDP protocols

## Management & Maintenance

Supports Console, Telnet, and Web management methods  
 Supports software update over FTP  
 Supports SSH  
 Supports SSL  
 Supports LLDP  
 Supports SNMP client

## Product Specifications

### Technical Specifications

Standard

- ▼ IEEE 802.3i (10Base-T)
- ▼ IEEE 802.3u (100Base-T)
- ▼ IEEE 802.3ad (port aggregation)
- ▼ 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	1Mbit
Packet forwarding rate	0.9Mpps
Switching delay	<10μs

### Interface

Fast Ethernet ports	10/100Base-T(X), RJ45 port
EoVDSL ports	2/3/5/15/20/25/55/100Mbps, RJ11
Serial ports	RS232/485/422, RJ45
Console port	RS232, RJ45

### LED

LED on front panel

- ▼ Running LED: Run
- ▼ Power LED: PWR
- ▼ Ring LED: Ring
- ▼ EoVDSL port data receiving/sending LED: V1, V2
- ▼ EoVDSL port role LED: CO1, CO2
- ▼ Serial port data receiving/sending LED: TX, RX
- ▼ Port LED: Link/ACT
- ▼ Port speed LED: Speed

### Power Requirements

Power input	12DCW(9-36VDC),
Power terminal	PCB Golden Finger
Power consumption	<10W
Overload protection	Support
Reverse connection protection	Support
Redundancy protection	Not support

### Physical Characteristics

Housing	Metal
Cooling	Natural cooling, fanless
Protection Class	IP30
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 ~+85°C (-40°F to 185°F)
Storage temperature	-40°C ~+85°C (-40°F to 185°F)
Ambient Relative Humidity	5% - 95% (non-condensing)

### Quality Assurance

MTBF	307,699 hrs
Warranty	5 years

### Approvals

Please visit [www.kyland.com](http://www.kyland.com) for the latest news

### Industry standard

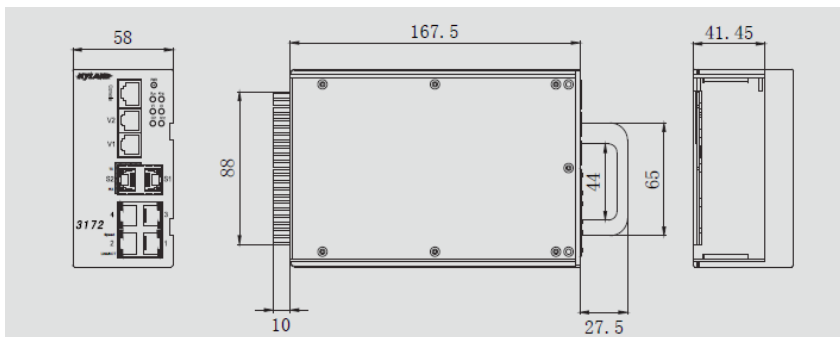
EMI

- ▼ FCC Part 15 Class A&B

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)
  - ▼ IEC61000-4-8(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

### SICOM3172-Ports-PS

#### Ports

1EoVDSL-RJ11-4T	4x10/100Base-T(X) RJ45 port; 1xVDSL port
1EoVDSL-RJ11-4T-2D	4x10/100Base-T(X) RJ45 port; 1xVDSL port; 2xRS232/485/422 serial port
2EoVDSL-RJ11-4T	4x10/100Base-T(X) RJ45 port; 2xVDSL port
2EoVDSL-RJ11-4T-2D	4x10/100Base-T(X) RJ45 port; 2xVDSL port; 2xRS232/485/422 serial port

#### PS

L5	12DCW(9-36VDC)
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