

SICOM3172

Preliminary



EoVDSL2 & Serial Device Server Integrated Traffic Industrial Ethernet Switches

- 2 EoVDSL2 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 EoVDSL2 & 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 EoVDSL2 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

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

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 HTTPS/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 (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	1Mbit
Packet forwarding rate	0.9Mpps
Switching delay	<10μs

Interface

Fast Ethernet ports	10/100Base-T(X), RJ45 port
EoVDSL2 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
- ▼ EoVDSL2 port data receiving/sending LED: V1, V2
- ▼ EoVDSL2 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	12-24VDC(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 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	307,699 hrs
Warranty	5 years

Approvals

For the latest dynamics of the product, visit the website of Kyland.

Industry standard

EMI

- ▼ FCC Part 15 Class A&B

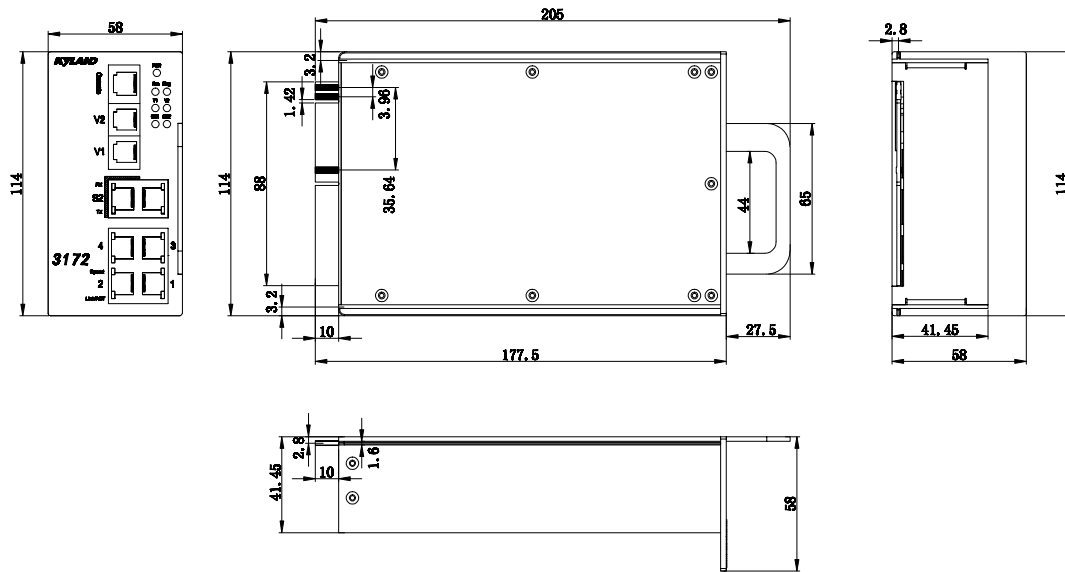
EMS

- ▼ 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

1EoVDSL2-RJ11-4T	4x10/100Base-T(X) RJ45 port; 1xVDSL port
1EoVDSL2-RJ11-4T-2D	4x10/100Base-T(X) RJ45 port; 1xVDSL port; 2xRS232/485/422 serial port
2EoVDSL2-RJ11-4T	4x10/100Base-T(X) RJ45 port; 2xVDSL port
2EoVDSL2-RJ11-4T-2D	4x10/100Base-T(X) RJ45 port; 2xVDSL port; 2xRS232/485/422 serial port

PS

L5	12-24VDC(9-36VDC)
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