

SICOM6800-D

12G port layer 2 managed DIN-Rail TSN switches



» Overview

SICOM6800-D is Layer 2 TSN DIN-Rail Managed Industrial Ethernet Switch. It provides 4 1000Base-X SFP ports; 8 10/100/1000Base-T(X) RJ45 ports. SICOM6800-D supports DRP/DHP (recovery time < 20ms), MSTP/RSTP, VLAN, multicast, QoS, SSH and many other Layer 2 software features, and supports IEEE802.1Qbv, IEEE802.1Qbu, IEEE802.1CB, IEEE802.1AS TSN protocols, and supports CLI, Telnet, Web management methods, Kyvision centralized management based on SNMPv1/v2c/v3. SICOM6800-D is especially designed for harsh environments with wide operating temperature range, EMC level 4, IP40 protection class, strong vibration-resistant mounting clip for DIN-Rail installation, and can be deployed in Transportation, Oil & gas and many other industrial applications.

» Key Features

- Supports 1000Base-X SFP ports
- Supports DRP/DHP, RSTP/MSTP
- Supports IEEE802.1Qbv, IEEE802.1Qbu, IEEE802.1CB, IEEE802.1AS
- Supports HTTPS/SSL, SSH, TACACS+, IEEE802.1X, RADIUS
- Supports DDM(SFP port)

Supports IP40 protection

Product Specifications

>Software functions

-Switching

Supports VLAN,GVRP

Supports port trunking

Supports port flow control

Supports speed limit

Supports broadcast storm control

-Redundancy

Supports DRP/DHP, with the recovery time<20ms

Supports RSTP/MSTP

-Multicast

Supports IGMP Snooping

Supports static multicast

-TSN

Supports IEEE802.1Qbv

Supports IEEE802.1Qbu

Supports IEEE802.1CB

Supports IEEE802.1AS

-Network Security

Supports IEEE802.1X

Supports HTTPs/SSL

Supports SSH

Supports RADIUS

Supports TACACS+

Supports User Classification

Supports port isolate

-Service Quality

Supports 802.1p, TOS/DiffServ

Supports SP, WRR queue scheduling

Supports ACL

-Management and Maintenance

Supports Console,Telnet,WEB management methods

Supports SNMPv1/v2c/v3,Kyvison centralized management

Supports software upgrade by FTP/TFTP

Supports IP/MAC conflict alarm, power supply alarm, port alarm, ring alarm

Supports DDM (SFP port)

Supports RMON

Supports port mirroring

Supports Syslog

Supports LLDP

-IP management

Supports DHCP server/client

-Clock Management

Supports SNTP Client

Supports PTPv2

Supports 802.1AS

>Product Specifications

-Technical Parameter

Standard

IEEE 802.3i (10Base-T)

IEEE 802.3u (100Base-T and 100Base-FX)

IEEE 802.3ab (1000Base-T)

IEEE 802.3z (1000Base-SX/LX)

IEEE 802.3ad (Link 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 802.1s (MSTP)

IEEE 802.1x (Network Access Control)

IEEE 802.1ab (LLDP)

-Switch Properties

Priority Queues 8

Number of VLANs 4K

VLAN ID 1-4093

Number of Multicast Groups 512

MAC Table 16K

Packet Buffer 24Mbit

Packet Forwarding Rate 17.9Mpps(4GX8GE)

Switching Delay <10us

-Interface

Gigabit Port

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

10/100/1000Base-T(X), RJ45 port, Auto MDI/MDI-X connection

Console Port

RJ45, RS232

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 Requirement

Power Input

24-48VDC(18-72VDC)

Power Terminal

5-pin 5.08 mm-spacing plug-in terminal block(L2-L2)

Power Consumption <20W

Overload Protection Support

Reverse Protection Support

Redundancy Protection Support

-Physical Characteristics

Housing Metal

Cooling Natural convection, fanless

Protection Class IP40

Dimension 91mm×139mm×140mm (W×H×D)

Weight 1.50Kg

Mounting DIN-Rail or Panel Mounting

-Environmental Limit

Operating Temperature -40°C ~ +70°C

Storage Temperature -40°C ~ +85°C

Ambient Relative Humidity 5% to 95% (non-condensing)

-Warranty

Warranty 5 years

-Approvals

CE, FCC

-Industrial Standard

EMI

FCC CFR47 Part 15, EN55032/CISPR22, Class A

EMS

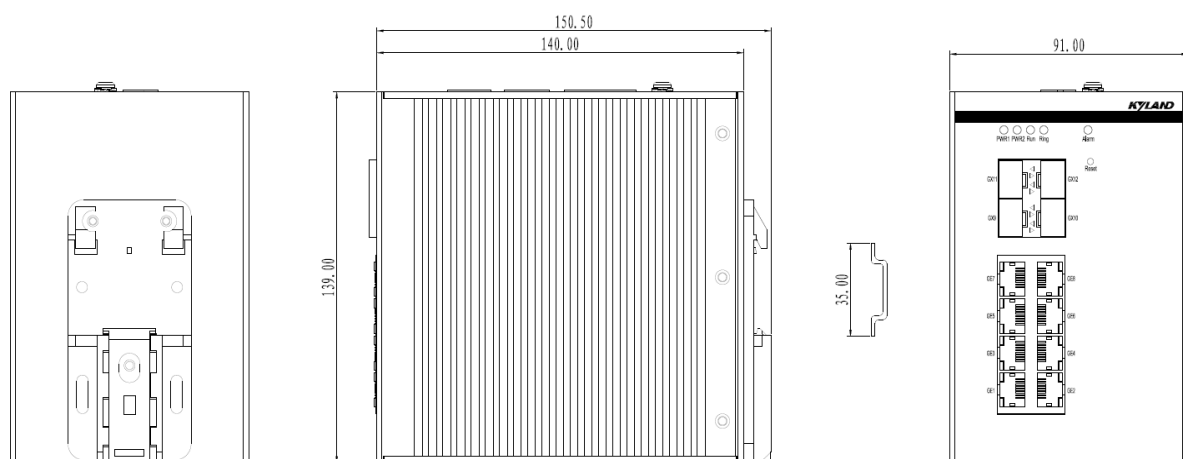
IEC61000-4-2(ESD) $\pm 8\text{kV}$ (contact), $\pm 15\text{kV}$ (air)IEC61000-4-3(RS) 10V/m (80MHz ~ 2GHz)IEC61000-4-4(EFT) Power Port: $\pm 4\text{kV}$; Data Port: $\pm 2\text{kV}$ IEC61000-4-5(Surge) Power Port: $\pm 2\text{kV/DM}$, $\pm 4\text{kV/CM}$; Data Port: $\pm 2\text{kV}$ IEC61000-4-6(CS) 10V (150kHz ~ 80MHz)

Machinery

IEC60068-2-6 (vibration)

IEC60068-2-27 (shock)

IEC60068-2-32 (free fall)

» Mechanical Drawing

 Ordering Information**Ordering Information**

Product Model	SICOM6800-D-Ports-PS1-PS2
Code definition	Code selection
Ports	4GX8GE= 4×1000Base-X, SFP ports;8×10/100/1000Base-T(X) RJ45 ports
PS1-PS2	L2-L2=24-48VDC (18-72VDC), redundant power inputs

Accessories

Accessory Model	Description
SFP module	See the selection table of industrial SFP module.
DT-BGAZ-02	Panel for panel mounting
DT-FCZ-RJ45-01	Single-port RJ45 dust plug