SICOM6800

28G ports layer 3 managed Backbone switches

Overview

SICOM6800 is a auto-controllable Layer3 rack mountable backbone network switch developed for occasions with high industrial control security requirements,using auto-controllable switching chips、physical layer chips 、CPUs and operating systems. SICOM6800 supports up to 28 full Gigabit Ethernet ports, AC/DC dual power supply. Support DT- Ring (Recovery time<50ms), DRP/DHP(Recovery time<20ms), MSTP/RSTP/STP, VLAN, Multicast, QoS, SSH and other layer 2 software features;support VRRP, OSPF, RIP, IGMP, PIM, static routing and other Layer3 functions, and supports CLI, Telnet, Web multiple management methods, and network management based on SNMPv1/v2c/v3. Developed for field environment adaptability, plateau adaptability, and EMC performance devices, this series of products have the ability to work stably and reliably in harsh industrial environments.

Key Features

Up to 28 Gigabit Ethernet Ports

Supports DT-Ring, DRP/DHP, STP/RSTP/MSTP Redundancy protocol

Supports VRRP, OSPF, RIP, IGMP, PIM, static routing

Supports HTTPS/SSL, SSH, TACACS+, IEEE802.1X, RADIUS

Supports User rating, MAC address binding

Supports IEC61850 MMS management

EMC level 4

Supports IP40 protection

Product Specifications

>Software functions
-Switching

Supports VLAN,PVLAN

Supports port trunking

Supports port flow control

Supports speed limit

Supports broadcast storm control

-Redundancy

Supports DT-Ring, DT-Ring+, DT-VLAN with the recovery time<50ms

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

Supports STP/RSTP/MSTP

-Multicast

Supports IGMP Snooping

Supports GMRP

Supports static multicast

Supports IGMP v1/v2/v3

Supports PIM-SM,PIM-DM

-Routing

Supports VRRP

Supports RIPv1/v2

Supports OSPFv2

Supports static routing

-Network Security

Supports IEEE802.1X

Supports HTTPs/SSL

Supports SSH

Supports SFTP Client

Supports RADIUS

Supports TACACS+

Supports User Classification

Supports MAC address binding with switch ports

Supports port isolate

-Service Quality

Supports 802.1p, TOS/DiffServ

Supports SP, WRR queue scheduling

Supports ACL(Fliter L2 - L4 Data)

-Management and Maintenance

Supports Console,Telnet,WEB management methods

Supports SNMPv1/v2c/v3,Kyvison centralized management

Supports IEC61850 MMS management

Supports software upgrade by FTP/TFTP

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

Memory/CPU alarm,port link up/down alarm,Ring alarm,SFP port RX power alarm;

Supports DDM (SFP port)

Supports RMON

Supports port mirroring

Supports Syslog

Supports LLDP

-IP management

Supports DHCP server/snooping/client

-Clock Management

Supports SNTP Client

Supports PTPv2

>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)

-Switch Properties

Priority Queues 8

Number of VLANs 4K

VLAN ID 1-4093

Number of Multicast Groups 1K

Routing Table 8K

MAC Table 32K

Packet Buffer 32Mbit

Switching Delay <10us

Jumbo Frame Size 10KB

-Interface

Gigabit Port

100/1000Base-X SFP port

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

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

Interface LED: Link/ACT, Speed (RJ45 port); Link/ACT(Fiber port)

-Power Requirement

Power Input

100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC)

24-48VDC(18-72VDC)

Power Terminal

5-pin 5.08 mm-spacing plug-in terminal block

Power Consumption <25W

Overload Protection Support

Reverse Protection Support

Redundancy Protection Support

-Physical Characteristics

Housing Metal

Cooling Natural convection, fanless

Protection Class IP40

Dimension 440mm×44mm×322mm (W×H×D)

Weight 5Kg

Mounting DIN-Rail or Panel Mounting

-Environmental Limit

Operating Temperature -40℃ ~ +75℃

Storage Temperature -40℃ ~ +85℃

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

-Warranty

MTBF 936443h

Warranty 5 years

-Approvals

CE, FCC(Pending)

-Industrial Standard

EMI

FCC CFR47 Part 15,EN55032/CISPR22,Class A

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) 10V(150kHz～80MHz)

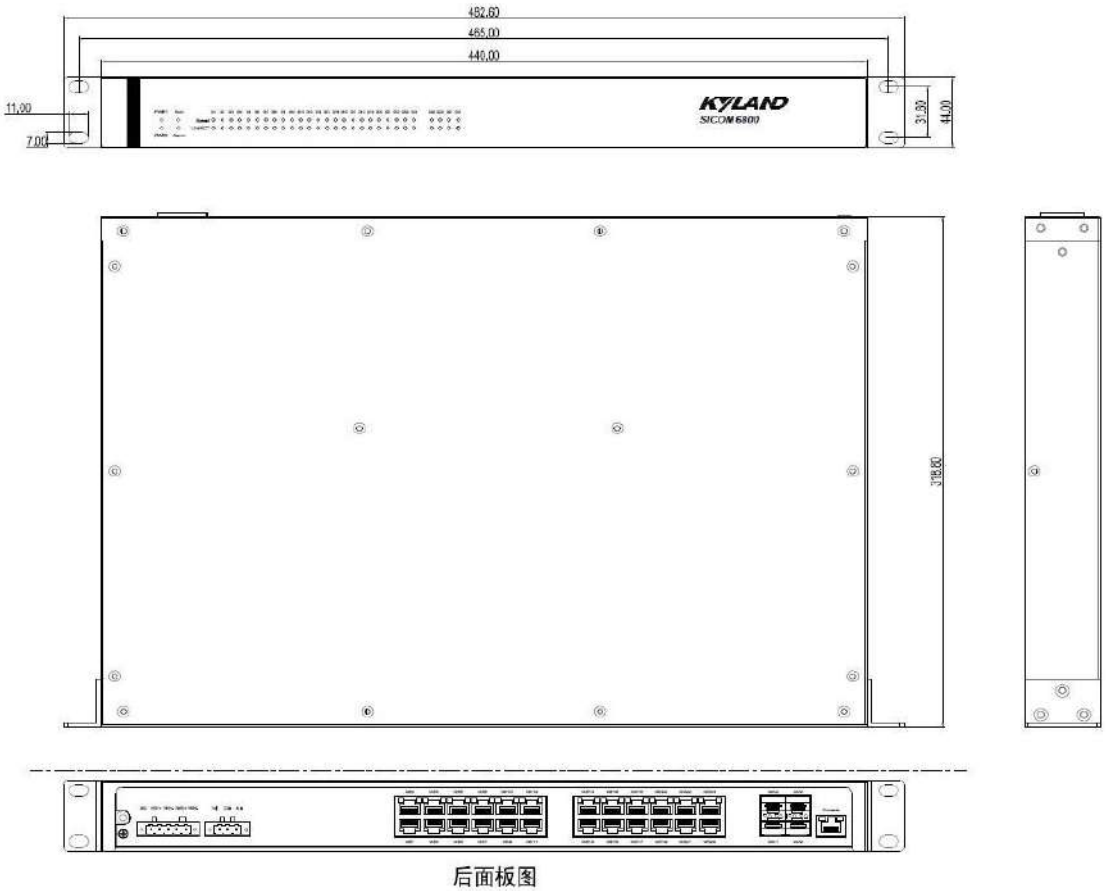
Machinery

IEC60068-2-6 (vibration)

IEC60068-2-27 (shock)

IEC60068-2-32 (free fall)

Mechanical Drawing



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Ordering Information

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Product Model	SICOM6800-Ports-PS1-PS2
Code definition	Code selection
Ports	4GX24GE= 4×100/1000Base-X SFP ports;24×10/100/1000Base-T(X) RJ45 ports; 4GX16SFP= 4×100/1000Base-X SFP ports;16×100Base-X SFP ports; 16GX= 16×100/1000Base-X SFP ports;
PS1-PS2	HV-HV=100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC), redundant power inputs

Accessories

Accessory Model	Description
Gigabit SFP module	See the selection table of industrial gigabit SFP module.
100M SFP module	See the selection table of industrial 100M SFP module.
DT-FCZ-RJ45-01	Single-port RJ45 dust plug