SICOM3005A
6 Switching Ports + 4 Serial Ports Managed Serial Device Servers

Overview

SICOM3005A serial integrated both switching and serial protocol functions. It is ability of interconvert between RS232/485/RS232 and Ethernet protocol. Support multiple serial protocols and switching protocols. It is smart for use in remote transmission and distribution conditions, such as windpower field, power utilities, intelligent transportation, etc.

Key Features

2 Fast Ethernet fiber/RJ45 optional ports and 4 10/100Base-T(X) ports and 4 serial ports.

Supports protocol protocol exchange between TCP/UDP and serial protocols such as RS232/RS485/RS422.

Supports API interface for user program.

Flow control by software,serial-security,serial-static route

Support Ethernet security management, ring-redundancy, broadcast protocol, etc.

Ingress protection class IP40.

Product Specifications

>Software Functions
-Serial Function

Support API base on Linux, allow customer to development privately.

Support protocol conversion between TCP/UDP and serial protocols such as RS232/RS485/RS422.

Support flow control by software.

Make sure data safety by filtering of access list.

Serial ports support mirror, VLAN base on IP layer, static route.

Transmission statistics.

-Switching

Support VLAN,PVLAN

Support GVRP

Support port trunking

Support port flow control

Support port speed limit

Support broadcast storm control

Support ARP

-Redundancy

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

Support DRP, DHP with the recovery time<20ms

Support STP/RSTP

-Multicast

Support IGMP Snooping

Support GMRP

Support static multicast

-Network Security

Support HTTPs/SSL

Support SSH

Support TACACS+

Support IEEE802.1X

Support Mac address binding with switch ports

Support port security

Support Mac AAA

-Service Quality

Support SP, WRR queue scheduling

-Management & Maintenance

Support Console, Telnet, WEB management methods

Support SNMPv1/v2c/v3, Kyvision centralized management

Support software upgrade by FTP/TFTP

Support power, port and ring alarm

Support loop detection

Support CRC protection

Support RMON

Support port mirroring

Support cable check

Support Syslog

Support LLDP

Support Link-check

-IP Management

Support DHCP server/snooping/client, DHCP Option 82

-Clock Management

Support SNTP Client

>Technical Specifications
-Standard

RS232/485/422

IEEE 802.3i(10Base-T)

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

IEEE 802.3x(flow control)

IEEE 802.1p(Class of Service)

IEEE 802.1Q(VLAN)

IEEE 802.1D(STP)

IEEE 802.1w(RSTP)

-Switch Properties

Priority Queues: 4

Number of VLANs: 256

VLAN ID: 1– 4093

Number of Multicast Groups: 256

MAC Table: 8K

Packet Buffer: 2Mbit

Packet Forwarding Rate: 0.9Mpps

Switching Delay:<5μs

-Interface

Fast Ethernet Ports:

100Base-FX, SM/MM, SC/ST/FC connector

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

Serial Port:

RJ50 connector,

Compatible with RS232,RS85 and RS422 protocols.

Console Port:

RS232,RJ45 connector

Alarm Contact:

3-pin 5.08mm-spacing plug-in terminal block, 250VAC/220VDC Max, 2A Max

-LED

Running LED: Run1

Serial server running LED: Run2

Alarm LED: Alarm (12/24/48VDC model)

Power LED: PWR1,PWR2

Ring LED: Ring

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

Serial port status LED: serial port transmitting data (Green), serial port receiving data (Yellow)

-Button

Reset: Reboot and restore default configuration

-Power Requirements

Power Input:

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

24-48VDC(18-72VDC)

12-24VDC(9-36VDC)

Power Terminal:

5 pin 5.08mm-spacing plug-in terminal block

Power Consumption<10w

Overload Protection: Support

Reverse Protection: Support

Redundancy Protection: Support

-Physical Characteristics

Housing: Metal, fanless

Cooling: Natural convection, fanless

Protection Class: IP40

Dimension: 66mm×135mm×107.5mm(W×H×D)

Weights: 0.6Kg

Mounting: DIN-Rail or Panel Mounting

-Environmental Limits

Operating Temperature: -40°C to +75°C

Storage Temperature: -40°C to +85°C

Ambient Relative Humidity: 5-95% RH

-Quality Assurance

MTBF: 307,699 hrs

Warranty: 5 years

-Industry Standard

EMI:

CFR47 Part 15,EN55022/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

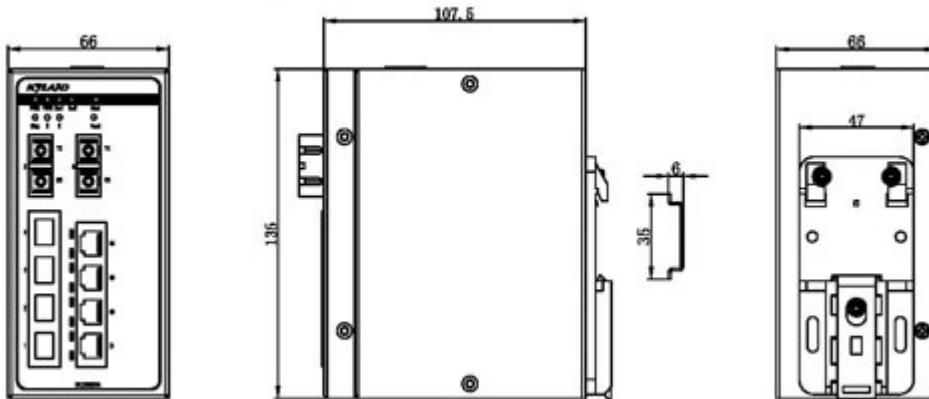IEC61000-4-6(CS) 3V(10kHz–150kHz);10V(150kHz–80MHz)

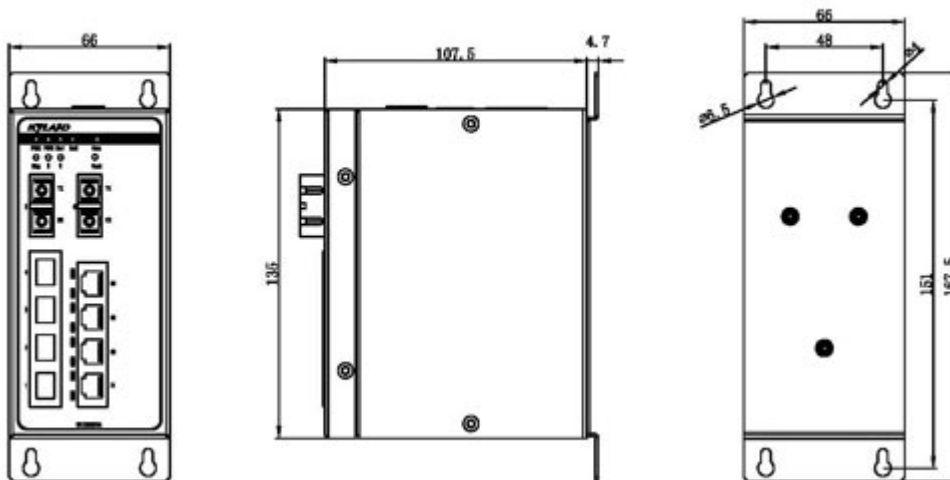Environmental

IEC60068-2-6(vibration)

IEC60068-2-27(shock)

IEC60068-2-32(free-fall)

≫ Mechanical Drawing

DIN Rail Mounting

Panel Mounting

≫ Ordering Information

SICOM3005A-Ports-Connector-PS1-PS2
SICOM3005A-Ports-Connector-PS1
Ports

2S4T4D	2x100Base-FX, single mode fiber port; 4x10/100Base-T(X) RJ45 ports; 4 RS232/RS422/RS485 serial ports
2M4T4D	2x100Base-FX, multi mode fiber port; 4x10/100Base-T(X) RJ45 ports; 4 RS232/RS422/RS485 serial ports
6T4D	6x10/100Base-T(X) RJ45 ports, 4 RS232/RS422/RS485 serial ports
2S4T	2x100Base-FX, single mode fiber port; 4x10/100Base-T(X) RJ45 ports
2M4T	2x100Base-FX, multi mode fiber port; 4x10/100Base-T(X) RJ45 ports

6T	6x10/100Base-T(X) RJ45 ports
Connector	**100M fiber port specifications**
SC05	SC connector, multi-mode, 1310nm, 5km
ST05	ST connector, multi-mode, 1310nm, 5km
FC05	FC connector, multi-mode, 1310nm, 5km
SC40	SC connector, single-mode, 1310nm, 40km
ST40	ST connector, single-mode, 1310nm, 40km
FC40	FC connector, single-mode, 1310nm, 40km
SC60	SC connector, single-mode, 1310nm, 60km
SC80	SC connector, single-mode, 1550nm, 80km
NA	No 100Base-FX fiber port
PS1-PS2	
L2-L2	24-48VDC (18-72VDC), redundant power inputs
L5-L5	12-24VDC (9-36VDC), redundant power inputs
PS1	
HV	100-240VAC, 50/60Hz; 110-220VDC (85-264VAC/77-300VDC), single power input

Accessories

DT-BGAZ-09	Panel for panel mounting
DT-FCZ-RJ45-01	Dustproof cover for RJ45 port

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