SICOM3005

6 Port Managed Din-Rail Serial Server Function Integrated Programmable Switch

- Supports DT-Ring protocols and MSTP
- Integrates industrial Ethernet switch with serial server, supports 4 RS232/RS485 ports
- Serial ports support TCP Server/Client, UTP working mode, supports one-key recovery
- EMC performance reaches industrial level 4
- IP40 protection class
- CE, FCC certificates

CE   FC   DT-RING

>> Overview

SICOM3005 is a serial server function integrated programmable industrial Ethernet switch. It is developed under Linux platform supporting redevelopment. It supports 4 serial ports, 2 100M copper/fiber ports and 3 10/100Base-T(X) ports. Its fanless ribbed casing design and ability to handle a wide range of temperatures ensure high reliability in extreme industrial environments. Based on Kyvision3.0, CLI, WEB interface, it offers concentrative management.The state-of-the-art OPC software enables the switch's management embedded in various industrial systems.

>> Features & Benefits

- Redundancy Technology: supports DT-Ring protocols (recovery time<50ms) and MSTP
- Multicast Protocol: supports IGMP Snooping, GMRP and static multicast
- Network Partition: supports VLAN, PVLAN
- Service Quality: supports QoS
- Bandwidth Management: supports port trunking, port speed limit, broadcast storm control
- Network Management and Monitoring: supports CLI, Telnet, WEB management methods, Kyvision centralized management, SNMPv1/v2, RMON, LLDP, SNTP, DHCP
- Network Security: supports SSH, SSL, ACL
- Device Management: supports FTP upgrade
- Device Maintenance: supports port mirroring
- Alarm Output: supports IP/MAC conflicts, power, port and ring alarms
- Special Function: supports Link Check and Loop Status Check

>> Technical Specifications

Standard
IEEE 802.3i, IEEE 802.3u, IEEE 802.3x, IEEE 802.1p, IEEE 802.1Q, IEEE 802.1s

Protocol
DT-Ring, DT-Ring+, DT-VLAN, MSTP;
IGMP Snooping, GMRP;
VLAN, PVLAN;
Telnet, HTTP, HTTPS, SNMPv1/v2, RMON, LLDP, SNTP, DHCP server;
SSH, SSL, ACL;
FTP;
ARP, QoS

Switch Properties
Priority Queues: 4
Number of VLANs: 256
VLAN ID: 1-4094
Number of Multicast Groups: 256
MAC Table: 8K
Packet Buffer: 2Mbit
Packet Forwarding Rate: 0.9Mpps
Switching Delay: <5μs

Interface
Fast Ethernet Fiber Ports: max 2 100Base-FX SM/MM ports, FC/SC/ST connector
Fast Ethernet RJ45 Ports: max 6 10/100Base-TX RJ45 ports
Serial Ports: max 4 RS232/RS485 ports, 20-pin 3.81mm-spacing terminal block
Console Port: RS232 (RJ45 connector)
Alarm Contact: 3-pin 3.81mm-spacing plug-in terminal block, 250VAC/220VDC Max, 2A Max, 60W Max

LED
LEDs on Front Panel:
Running LED: Run1
Serial Server Running LED: Run2
Power LED: PWR1, PWR2
Transmitting and Receiving LEDs of Serial Ports: T1-T4, R1-R4
Interface LED: Link/ACT, Speed (RJ45 port), Link/ACT (100M fiber ports)

Reset Button
Reboot and load default configuration

Transmission Distance
Serial Cable: RS232: 15m; RS485: 1200m
Twisted Pair: 100m (Standard CAT5, CAT5e network cable)
Multi Mode Fiber: 1310nm, 5km (100M)
Single Mode Fiber: 1310nm, 40km/60km (100M)
                                  1550nm, 60km/80km (100M)

Power Requirements
Power Input: 12DC (9-18VDC), 24DC (18-36VDC), 48DC (36-72VDC)
Power Terminal: 5-pin 5.08mm-spacing plug-in terminal block
Power Consumption: <10W
Overload Protection: Support
Reverse Connection Protection: Support
Redundancy Protection: Support

Physical Characteristics
Housing: Aluminum, fanless
Protection Class: IP40
Dimensions (W×H×D): 55.4×139×119.5 mm
                                  (2.18×5.47×4.70 in.)
Weight: 0.6kg (1.323 pound)
Mounting: DIN-Rail or Panel mounting

Environmental Limits
Operating Temperature: -40 to 85℃ (-40 to 185°F)
Storage Temperature: -40 to 85℃ (-40 to 185°F)
Ambient Relative Humidity: 5 to 95% (non-condensing)

MTBF
307,699 hrs

Warranty
5 years

Approvals
CE, FCC

Industrial Standard
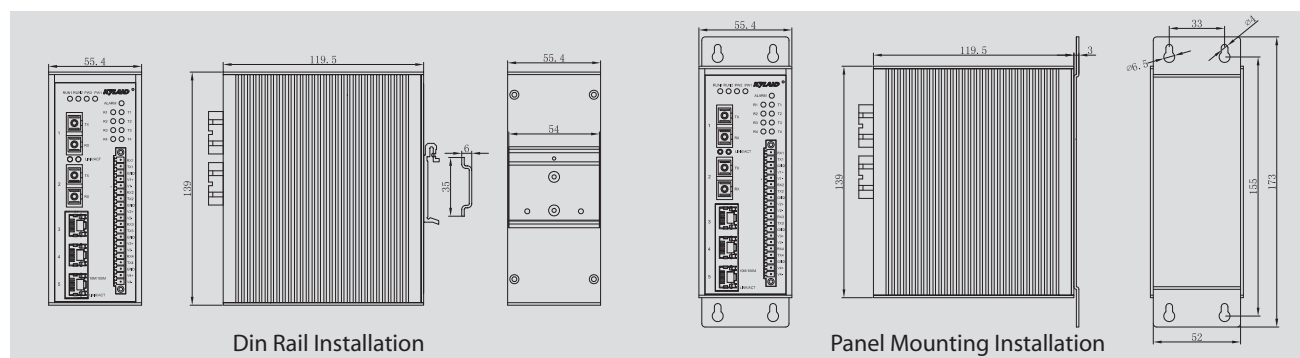EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A

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)
IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)

Machinery:
IEC60068-2-6 (Vibration)
IEC60068-2-27 (Shock)
IEC60068-2-32 (Free Fall)

Industry: IEC61000-6-2
Railway: EN50155, EN50121-4
Traffic Control: NEMA TS-2

⟫ Mechanical Drawing

Din Rail Installation

Panel Mounting Installation

⟫ Ordering Information

SICOM3005 - _____-_____ - _____ - _____
　　　　　　　Ports　　Distance　　Connector　　PS

Ports
2M-3T-4D = 2 100Base-FX multi mode ports, 3 10/100Base-TX RJ45 ports, 4 RS232/485 serial ports

2S-3T-4D = 2 100Base-FX single mode ports, 3 10/100Base-TX RJ45 ports, 4 RS232/485 serial ports

5T-4D = 5 10/100Base-TX RJ45 ports, 4 RS232/485 serial ports

2M-4T = 2 100Base-FX multi mode ports, 4 10/100Base-TX RJ45 ports

2S-4T = 2 100Base-FX single mode ports, 4 10/100Base-TX RJ45 ports

6T = 6 10/100Base-TX RJ45 port

Distance: Fiber Distance
1310-5 = 1310nm, 5km
1310-40 = 1310nm, 40km
1310-60 = 1310nm, 60km
1550-80 = 1550nm, 80km

Connector: Fiber Connector
SC = SC connectors
ST = ST connectors
FC = FC connectors

PS: Power Supply
12DC = 9-18VDC, dual redundant power inputs
24DC = 18-36VDC, dual redundant power inputs
48DC = 36-72VDC, dual redundant power inputs