

**SICOM3005**

5 Port Serial Server Function
Integrated Programmable
Industrial Ethernet Switch

CE, FCC, RoHS

Overview

SICOM3005 is a serial server function integrated programmable industrial Ethernet switch. It is developed under Linux platform supporting redevelopment. It supports 3 100Base-TX, 2 100Base-FX (or 2 100Base-TX), and 4 serial ports with RS232 or RS485 in flexible combination. 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

- Serial server integrated embedded system, developed under Linux platform, support redevelopment potential and relative protocol exchanging such as the data exchanging from IEC61870-101 to IEC61870-104.
- 4xserial ports, 3x100Base-TX RJ45 ports, 2x100Base-FX ports
- Flexible RS232 and RS485 combination, support plug and play and easy configuration in the software
- Support necessary data port protecting circuit, meet the requirements of interference rejection with industrial level 4.
- Support DT-Ring Suite (Recovery time < 50ms), RSTP/STP (IEEE802.1w/d) redundancy protocol.
- Support IGMP Snooping, TRUNK, port mirroring, QoS, VLAN and ACL
- Support multiple management methods such as CLI, TELNET, WEB, SNMP V1/V2 and OPC
- Auto-network topology, able to realize centralized network management
- Safe MAC and port binding function, support static FDB
- Support management configuration of network bandwidth to properly limitation.
- RMON (Group 1, 2, 3 and 9) to improve network monitoring ability
- Broadcast storm control
- EMC industrial level 4, able to work in harsh environments such as strong electromagnetic interference.
- Abundant power supply options, able to provide dual redundant power supply
- Relay alarm output port with power loss alarming function
- Uniform network management software of SICOM series: Kyvision3.0
- Ribbed Aluminum heat dissipation (patent), fanless design
- Operating temperature: -40 to 85°C (-40 to 185°F)
- DIN-rail or wall mounting
- IP40 protection class

Technical Specifications**Standard**

IEEE802.3
IEEE802.3u
IEEE802.3x
IEEE802.1q
IEEE802.1p
IEEE802.1d
IEEE802.1w
Store and forward switching mode
TCP Server
TCP Client
UDP

Network

Ring, chain, star and tangent ring network topology.

Interface

100M fiber ports: 2x100Base-FX (FC/SC/ST connector)
TP ports: 3x10/100Base-TX, RJ45 connector
Serial ports: up to 4xRS232/RS485
CONSOLE interface: RS232, RJ45

Performance

MAC Address Table Size: 8K
Backplane switching capacity: 8.8G

Cable

Twisted pair: 0-100m (Standard CAT5, CAT5e net cable)
Multi-mode fiber: 1310nm, 0-5km (100M); 1310nm, 0-2km (1000M)
Single-mode fiber: 1310nm, 0-40km; 1550nm, 0-80km

Power Requirements

Power input: 12VDC (9V-18VDC), 24VDC (18-36VDC), 48VDC (36-72VDC), redundant
Connection Terminal: 5 cores 5.08mm spacing terminal
Power consumption: < 7W

Physical Characteristics

Casing: IP40 protection
Ribbed Aluminum housing fanless design
Dimensions (WxHxD): 139x55.4x119.5 mm (5.47x2.18x4.70 in.)
Weight: 1000g (2.204 pounds)
Installation: DIN-Rail or wall mounting

Environmental Limits

Operating Temperature: -40 to 85°C (-40 to 185°F)
Storage Temperature: -40 to 85°C (-40 to 185°F)
Ambient Relative Humidity: 0 to 95% (non-condensing)

Approvals

IEC61000-4-2 (ESD): ±8KV contact discharge, ±15KV air discharge
IEC61000-4-3 (RS): 10V/M (80-1000MHz)
IEC61000-4-4 (EFT): ±4KV power line, ±2KV data line
IEC61000-4-5 (Surge): power line ±4KV CM/ ±2KV DM, data line ±2KV
IEC61000-4-6 (CS): 3V (10KHZ-150KHZ), 10V (150KHZ-80MHz)
IEC61000-4-8 (Power frequency magnetic field): 100A/m cont. 1000A/m, 1s to 3s
IEC61000-4-12/18 (Damped oscillatory wave): 2.5KV CM, 1KV DM
IEC61000-4-10 (Damped oscillatory): 30A/m
IEC61000-4-16 (Common mode conduct): 30V cont. 300V, 1s

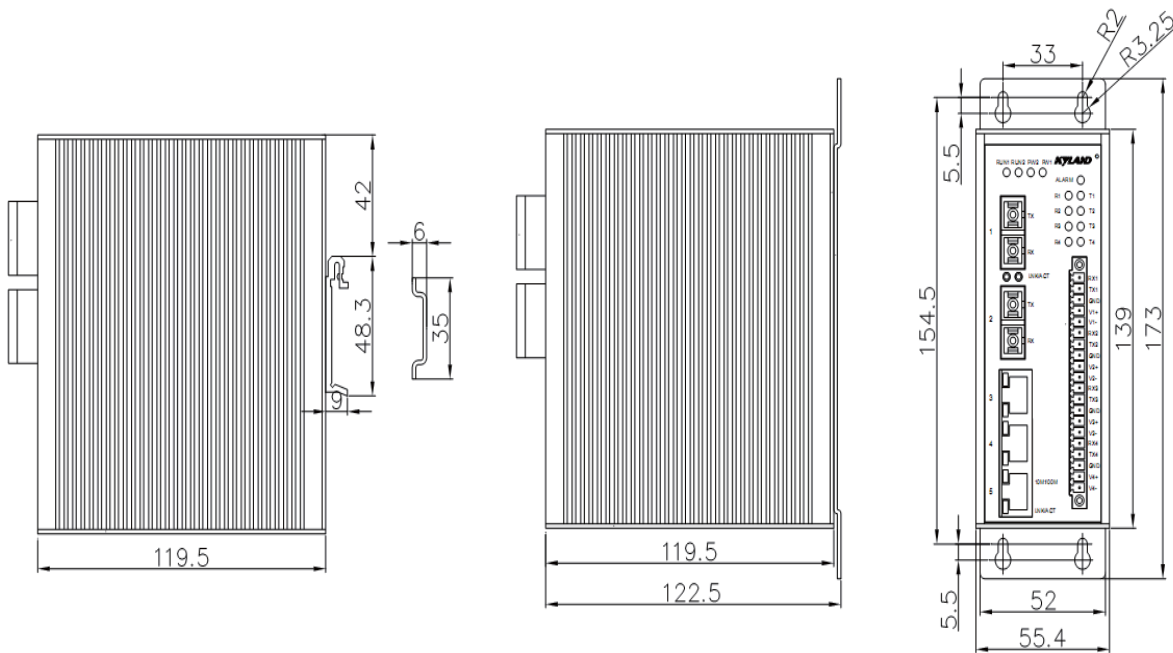
FCC CFR47 Part 15/EN55022:Class A&B
IEC61000-6-2(Industrial Standards), IEC61850-3(Substations), IEEE1613(Electric Power Substations), EN50121-4(Railway Applications)

CE,FCC,ROHS

MTBF
35 years

Warranty
5 Years

Mechanical Drawing



Ordering Information

Model	Description	Power Supply
SICOM3005-2S(M)-3TX-4D	2x100Base-FX, SM/MM; 3x10/100Base-TX, RJ45 connector; 4xRS232/RS485 serial ports	12VDC, 24VDC, 48VDC
SICOM3005-5TX-4D	5x10/100Base-TX, RJ45connector; 4xRS232/RS485 serial ports	
SICOM3005-2S(M)-3TX	2x100Base-FX, SM/MM; 3x10/100Base-TX, RJ45 connector	
SICOM3005-5TX	5x10/100Base-TX, RJ45 connector	