

2-channel Serial Server



- 1*10/100BASE-T(X) RJ45 ports, rate self-detection, full/half duplex mode, MDI/MDI-X self-adaption;
- SE5011 support 1*RS-485/422 port,1*RS-232 port; SE5012 support 2*RS-485 ports; 2400~115200bps line speed non-blocking communication;
- Support serial ports' isolation function, isolated voltage 500V AC;
- Support wide voltage 12~48VDC power input;
- High strength IP40 housing and industrial grade EMC design;
- Support DIN rail Mounting or Wall Mounting installation;
- Working temperature range: -40~85℃, to meet the requirements of various industrial sites.

Product Overview

The 2-channel Serial Server adopts high-strength IP40 protective housing, industrial grade EMC design, supports Auto-Negotiation adaptive technology, provides a comprehensive LED status indicator, supports wide voltage 12~48V DC power input to increase the reliability of the communication network. It is a Serial Server independently developed by Shenzhen Comark Technology Co.,Ltd. Provides 1*10/100Base-T (x) RJ45 ports, SE5011 support 1*RS-485/422 port,1*RS-232 port, SE5012 support 2*RS-485 ports. It is easy and convenient to centralize the management of decentralized serial devices and hosts through the network., the communication rate supports 2400~115200bps optional. Base on industrial installation requirements, DIN35 rail or Wall Mounting installation mode provided. The product adopts excellent network scheme in the industry, -40~85℃ working temperature range, can satisfy all kinds of industrial site requirements, provide convenient serial port communication solutions.

Features

- Conform to IEEE802.3/802.3u standard, store and forward Exchange Mode;
- Provide 1*10/100Base-T (x) RJ45 Ethernet ports, support Auto-Negotiation technology, automatic negotiation work rate (10M/100M) and duplex mode (half duplex/ full duplex), MDI/MDI-X self-adaption;
- SE5011 support 1*RS-485/422 port,1*RS-232 port, SE5012 support 2*RS-485 ports, provide TCP server, TCP client, UDP three serial transmission modes, 2400~115200bps line speed non-blocking communication;
- Support serial ports' isolation function, isolated voltage 500V AC;
- Conform to TCP、IP、UDP、ARP、ICMP、HTTP and TFTP Client protocols;
- Support Web management;
- Support serial port settings, can connect two serial devices through network for serial data transmission;
- Support through gateway, cross-routing communication;
- Low-power consumption design;
- Metal housing with IP40 and high level EMC protection;
- Support wide voltage 12~48V DC power input;
- -40~85℃ Working temperature range.

Specification

Technical Standard

- Protocol: IEEE802.3,IEEE802.3u

Interfaces

- RJ45 port: 10/100BASE-T(X) Auto-Negotiation

speed,full/half duplex mode and MDI/MDI-X self-adaption;

- Serial port: RS-422 supports R-, R+, T-, and T+ full-duplex modes,RS-485 supports A and B half-duplex working mode, RS-232 supports RXD, TXD, and GND full-duplex modes,; RS-485/422 /232 communication rate support

2400~115200bps optional;

Serial Port Attribute

- Standard: RS-485/422/232;
- RS-422 signal: T+, T-, R+, R-, GND;
- RS-485 signal: D+, D-, GND;
- RS-232 signal: TXD、RXD、GND;
- Check bits: None, Even, ODD;
- Data bits: 8bit;
- Stop bits: 1bit;
- Baud rate:2400~115200bps;
- Directional control: RS-485 adopts data flow auto control technology;
- Load capacity: RS-485/422 port supports 32 points polling environment (128 points customizable);
- Interface form: 1*RS-485/422 port adopts 5-bit 3.84mm spacing terminal; 2*RS-485 port adopts 6-bit 3.84mm spacing terminal; RS-232 port adopts DB9-M interfaces.
- Interface protection: 4000V surge protection.

Indicator Lamp

- Power indicator: PWR;

- System running indicator: SYS;
- Serial port data status indicator: S1/S2.

Power Supply

- Input: Wide voltage 12~48V DC power input, typical working voltage 12V/24V/48V, using 3-cores 7.62mm industrial power terminal;
- Idle running power:0.24W@24VDC;
- Full-load power:0.364W@24VDC.

Mechanical Properties

- Dimension(W×H×D): 103mm×32mm×83mm;
- Net weight:300g;
- Housing: Metal, IP40 protection;
- Installation: Wall mounting or DIN rail mounting.

Operating Environment

- Working temperature:-40℃~85℃;
- Storage temperature: -40℃~ 85℃;
- Relative humidity: 5% ~ 95% (no condensing) .

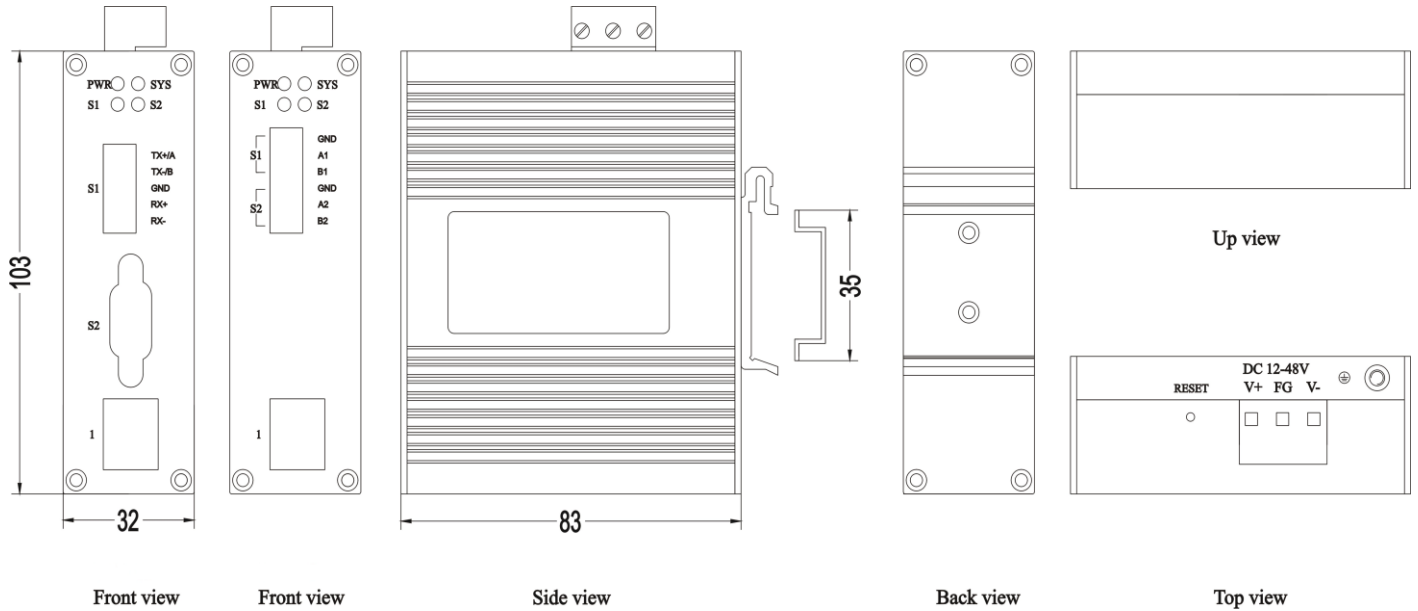
Warranty

- Warranty: 5 years.

Standards and Certifications

- IEC61000-4-2(ESD):±8KV Contact, ±15KV Air
- IEC61000-4-3(RS):10V/M(80-1000MHZ)
- IEC61000-4-4(EFT): Power ±4KV, Ethernet&Serial Data Cable ±4KV
- IEC61000-4-5(Surge): Power ±4KV CM/ ±2KV DM, Ethernet&Serial Data Cable ±4KV CM
- IEC61000-4-6(CS):3V (10KHZ-150KHZ), 10V (150KHZ-80MHZ)
- IEC61000-4-16(MS):30V COUNT 300V, 1S
- IEC60068-2-6(Vibration)
- IEC60068-2-27(Shock)
- IEC60068-2-32(Free Fall)
- IEC61000-6-2(General Industrial Standard)

Dimensions(mm)



Models

Model	Description
SE5011	2-channel serial port server, 1*10/100Base-T(X) RJ45 ports, 1-channel RS-485/422 serial ports, 1-channel RS-232 serial ports -40°C~85°C.
SE5012	2-channel serial port server, 1*10/100Base-T(X) RJ45 ports, 2-channel RS-485 serial ports, -40°C~85°C.

Package List

- 2-channel Serial Server 1 pcs (with industrial terminals for power supply)
- Product Manual 1 pcs
- Warranty card 1 pcs