

# SE3012 Serial Port Server



- 1\*10/100BASE-T(X) RJ45 port;
- 1\*RS-485/422 port and 1\*RS-232 port;
- Serial port communicate on Ethernet, support TCP Server, TCP Client, UDP mode;
- High strength IP30 shell and industrial-grade EMC design;
- Support 12~48VDC power input;
- Support DIN-Rail Mounting or wall Mounting ;
- Operating temperature range: -40~85℃, suitable for industrial environment applications.

## Product Overview

The SE3012 serial port server adopts high-strength IP30 protective casing, industrial-grade EMC design, support Auto-Negotiation Adaptive Technology, provide a comprehensive LED status indicator, support voltage 12~48V DC power input to increase the reliability of the communication network. Provide 1 10/100Base-T (x) RJ45 port, 1-channel RS-485/422 serial port and 1-channel RS-232 serial port, can disperse the serial equipment, the host and so on through the network simple, convenient centralized management, the communication rate support 110~115200bps optional. Based on industrial installation requirements, the installation mode of DIN35 guideway is provided. This product adopts the industry's excellent network program, -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 interface, support Auto-Negotiation technology, automatic negotiation work rate (10M/100M) and duplex mode (half duplex/ full duplex), MDI/MDI-X Adaptive;
- Provide 1-channel RS-485/422 serial port and 1-channel RS-232 serial port, provide TCP server, TCP client, UDP three serial transmission mode, 110~115200bps line speed non-blocking communication;
- Conforms to TCP, UDP, ARP, ICMP, HTTP, and TFTP client protocols;
- Support Web management;
- Support serial port settings, can be connected through the network two serial devices for serial data transmission;
- Supports gateway, cross-routing communication;
- low-power consumption design;
- Metal housing with IP30 and high level EMC protection
- Support wide range voltage 12~48V DC power input and over-current protection function;
- Work in -40~85℃ wide temperature.

## Specification

### Technical Standard

- Protocol: IEEE802.3, IEEE802.3u

### Interfaces

- RJ45 port: 10/100BASE-T(X) auto-Negotiation speed, auto duplex mode and MDI/MDI-X connection;
- Serial port: RS-422 supports RX-, RX+, TX-, TX+ full duplex working mode; RS-485 supports A and B

half-duplex working mode; RS-232 supports RXD, TXD, GND full duplex working mode; RS-485/422/232 Communication rate support 110~115200bps optional.

### Ethernet Attribute

- Standard: 10Base-T, 100Base-TX;
- Protocol: Supports TCP, UDP, ARP and ICMP protocol;
- Signal: Rx-, Rx+, Tx-, Tx+;

- Rate: 10M/100Mbps;
- Duplex mode: Full duplex or Half duplex;
- Interface cache: Maximum support for 1Mbits cache;
- Interface form: RJ45.

### Serial Port Attribute

- Standard: RS-485/422/232;
- RS-422 signal: TX+, TX-, RX+, RX-, GND;
- RS-485 signal: A, B, GND;
- RS-232 signal: TXD, RXD, GND;
- Check digit: None, Even, Odd, Mark, Space;
- Data bits: 5bit, 6bit, 7bit, 8bit;
- Stop bit: 1bit, 2bit;
- Baud rate: 110~115200bps;
- Directional control: RS-485 adopts data flow control technology;
- Load capacity: RS-485/422 side supports 32 point polling environment (customizable 128 points);
- Interface form: RS-485/422 and adopts 5-bit 5.08mm spacing terminal, RS-232 and adopts DB9-M interface;

### Indicator Lamp

- Power indicator: PWR;
- System running indicator: RUN;
- RS-232 Serial Port Data Status indicator: RS-232;
- RS-485/422 Serial Port Data Status indicator: RS-485/422.

### Power Supply

- Input: Wide DC power input 12~48VDC (12V/24V/48V typical) with 7.62mm industrial power terminal;
- Power: < 1.44W (@24VDC).

### Mechanical Properties

- Dimension(W×H×D): 32mm×103mm×83mm;
- Net weight: 200g;
- Housing: Metal, IP30 protection;
- Installation: DIN rail mounting.

### Operating Environment

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

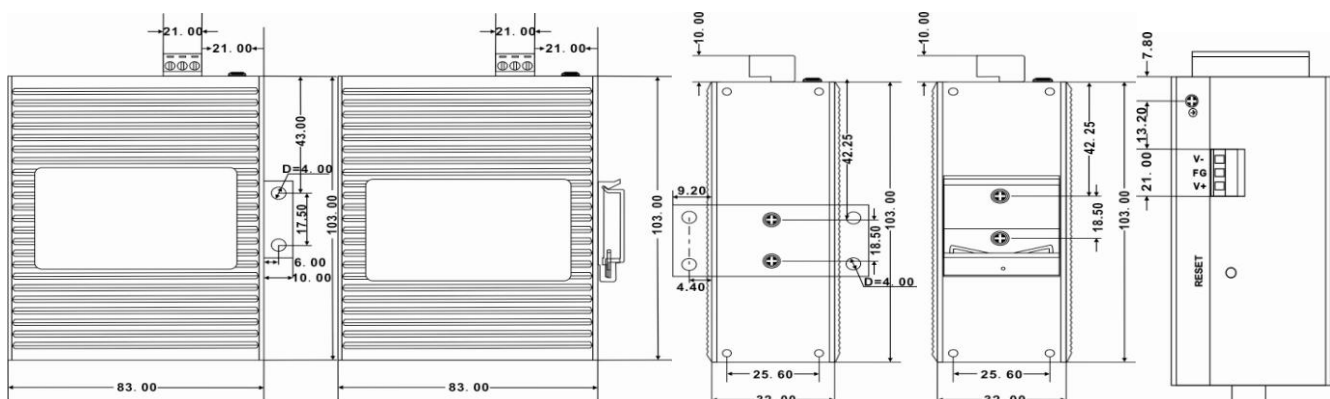
### Warranty

- Warranty: 5 years.

## Standards and Certifications

- IEC61000-4-2(ESD): Power:±8KV Contact, ±15KV Air, Data Cable ±6KV Contact, ±8KV Air
- IEC61000-4-3(RS): 10V/M(80-1000MHZ)
- IEC61000-4-4(EFT): Power ±2KV, Ethernet Data Cable ±2KV
- IEC61000-4-5(Surge): Power ±2KV CM/ ±1KV DM, Ethernet 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)



Wall Mounting 1

DIN-Rail 1

Wall Mounting 2

DIN-Rail 2

## Models

Model	Description
SE3012	SE3012 serial port server, 1*10/100Base-T(X) RJ45 port, 1-channel RS-485/422 serial port and 1-channel RS-232 serial port, -40℃~85℃.

## Package List

- SE3012 Serial Port Server(with industrial terminals, equipment for power supply and serial port connection)
- Product Manual
- Product Warranty