



## TYPE: Sepitam-Serial to Eth



### Description:

The industrial-rail serial server is IP40 protection level, it is a serial network server that enables serial devices to have networking capabilities immediately, and can centrally manage scattered serial devices, hosts, etc. through the network. The product supports 1-2 RS-232/RS-422/RS-485 to 1 100M Ethernet Comb port (providing 1 100M electrical port or 1 100M optical port), and can adopt 35mm railed and wall-mounted installation methods which can meet the needs of different application sites.

The serial server supports a variety of network protocols, such as TCP, UDP, ARP, ICMP, HTTP, DNS, DHCP, and SNMP; it has complete management functions, supports access control, rapid configuration, online upgrades, etc.; each serial port supports 4 TCP Or UDP session connection, support TCP Server, TCP Client, UDP Server, UDP Client, etc. multiple working modes; support WEB access mode. In addition, the provided management configuration tool based on the Windows platform can guide users step by step to manage and configure the device, and realize the immediate networking of serial devices through simple settings. The network management system has a friendly interface design, simple and convenient operation, and can bring you a good user experience.

The hardware adopts fanless, low power consumption, wide temperature and wide pressure design, and has passed strict tests in compliance with industry standards. It can adapt to industrial field environments with strict requirements for EMC. It can be widely used in PLC control and management, building automation, and medical and health care automation. System, measuring instrument and environmental power monitoring system, etc.

Can be used in many embedded network control applications:

- Industrial automation production
- Security access control: network access control, alarm equipment, infrared detection alarm, remote card reader
- Smart home equipment: smart home gateway, smart socket, smart switch
- Network IO controller: industrial remote IO input, remote relay control
- Building intelligence and energy monitoring
- Medical monitoring equipment



## Features :

- Adopt ARM Cortex-M4, main frequency 192MHz processor;
- Support 1 channel of FE Comb (provide 1 channel of FE electric port or 1 channel of FE SFP optical port), support SFP optical module DDM management;
- Ethernet support 10/100Base-T(X) adaptive Ethernet interface; support Auto-Nego Full or half duplex), support automatically detect MDI/MDIX
- The serial port supports 300bps-921600bps line speed non-blocking communication, supports automatic scanning and matching of baud rate, and supports customer-defined baud rate ;
- The serial data interface complies with the relevant standards of RS-232/RS-485/RS-485. There are three kinds of interfaces, and different bus modes can be set by dialing codes;
- Support various working mode like TCP Server, TCP Client, UDP Server, UDP Client, etc.;
- Support the monitoring of serial port state and serial port parameter, which can show the state of communication;
- Support cross-gateway and cross-route communication; support virtual serial port drive access mode and automatic connection recovery function after network interruption;
- Flexible serial data framing settings to meet various subcontracting needs of users;
- Support standard TCP/IP SOCKET application program access, TCP supports multiple connections, meeting the requirement of simultaneous monitoring or management of serial devices within 4 users;
- Support single or multi-machine communication under UDP mode to meet multiple users' simultaneous monitoring or management of serial devices;
- Support Windows configuration tools, serial port and WEB and other configuration forms, support SNMP network management;
- Support local and remote system firmware update;
- Support wide range 9-55V DC and AC power input;
- Support internal isolation, redundant dual power input;
- The power support overload protection and anti-reverse connection protection;
- Meet the requirements of industrial 4 grade electromagnetic compatibility;
- Super anti-radar function: anti lightning, anti inductive high voltage, anti surge, etc.;
- Highly efficient heat dissipation without fan, reducing repairing time;



- Anode oxidation aluminum alloy shell, IP40 protection grade, which can withstand the test of harsh environments;
- Railed or wall-mounted installation;
- Wide-temperature type: operating temperature  $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$ ;
- All models have passed the 100% baking machine test.

## Parameters

### ◆ 10/100M Ethernet interface

Protocol: comply with IEEE 802.3ab, IEEE 802.3z

Rate: 10/100M adaptive, full duplex/half duplex adaptive

MAC address table: 4096 MAC addresses

Physical interface: RJ45, support Auto-MDIX G.742 and G.823

### ◆ Serial interface

#### Standard

EIA/TIA-232 RS-232 (ITU-T V.28)

EIA/TIA-422 RS-422 (ITU-T V.11)

EIA/TIA-485 RS-485 (ISO/IEC8284)

#### Serial interface:

RS-422: TxD+ TxD- RxD+ RxD- GND

RS-485 4 wires: TxD+ TxD- RxD+ RxD- GND

RS-485 2 wires: A( corresponding TX+) B( corresponding TX-) GND

RS-232: RXD TXD GND

### ◆ Environmental indicators

Operating temperature:  $-40^{\circ}\text{C} - +80^{\circ}\text{C}$

Storage temperature:  $-40^{\circ}\text{C} - +85^{\circ}\text{C}$

Humidity: 0% -95% (non-condensing)

MTBF:> 100,000 hours



## Technical Specification:

Product model	Sepitam-Serial to Eth
Product Function Description	Transmitting 2 channels of RS232/422/485 serial data on Ethernet, industrial railed
Service port description	2 RS232/422/485 serial interfaces; 1 channel of FE electric port/ 1 channel FE optical port
power supply	Redundant dual power input DC9-55V or AC 7-43V, power consumption is less than 5W
Product Size	Shell: IP40 protection grade, aluminum alloy material Size: 133mm(length) x 130mm(width)x 40mm(height) Installing method: railed installation, wall-mounted installation
weight	0.65Kg / PCS



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