RS|PRO

Features

- Dual-LAN Redundancy

- Provide 4-channel RS-485/422 serial ports

- Baud rate: 300~460800 bps

- Support Web management

- 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

RS PRO

4-port R485/422 to Ethernet Modbus Gateway

RS Stock No.: 0149185

RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

Product Description

This RS PRO product is a serial device servers that can make serial device be equipped with networking capability instantly and centrally manage the scattered serial devices and hosts via network.

This product supports 4 RS-485/422 combo serial ports to 2 100M Ethernet copper ports which supports electromagnetic isolation.

It adopts DIN-Rail or wall mounting to meet the requirements of different application scenes.

0149185 support multiple network protocols, such as TCP, UDP, TELNET, ARP, ICMP, HTTP, DNS and DHCP protocol.

It also possesses complete management functions, including Access Control, Rapid Configuration, Online Upgrading and so on.

Each serial port supports 4 TCP or UDP session connections, and it also supports, TCP Server, TCP Client, UDP Server and UDP Client operating modes and Telnet , Web access modes.

0149185 provide 2 10/100Base-T (x) RJ45 ports and 4-channel RS-485 serial ports.

It has two separate LAN ports that can be connected to separate LAN networks.

Dual-LAN redundancy involves setting up two separate physical networks to connect the PC host with the 0149185 (the PC host also requires two LAN cards).

If one connection fails, the PC host can still communicate with your serial devices over the alternative LAN connection.

It is easy and convenient to centralize the management of decentralized serial devices and hosts through the network, the communication rate support 300~460800bps optional.

Built-in Modbus TCP, Modbus RTU and Modbus ASCII protocol make it easy for users to connect Modbus Ethernet devices to Modbus serial devices.

Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC.

It can be widely used in PLC control and management, Building Automation System, Health Care Automation System, measuring instrument and environmental forces monitoring system.

General Specifications

Ethernet	Standard: 10Base-T, 100Base-TX Rate: 10/100M Automatic Flow Control, MDI/MDI-X Autotunning Interface quantity: 2 Interface form: RJ45 Duplex mode: Full/Half Duplex Mode Self-adaptive Protocol: TCP, UDP, ARP, HTTP, ICMP, DHCP, DNS Operating mode: TCP Server, TCP Client, UDP Server, UDP Client
Gateway Protocols	Built-in Modbus TCP and Modbus RTU protocols Support Modbus RTU/ASCII Support RTU Master mode Support Modbus Slave mode Maximum support 16 TCP master connections
Serial Port	Standard: RS-485/422, RS-232 RS-422 signal: TX+,TX-, RX+, RX-, GND RS-485 signal: D+, D-, GND Check digit: None, Even, ODD Data bits: 5bit, 6bit, 7bit, 8bit Stop bit: 1bit, 2bit Baud rate: 300~460800bps Directional control: RS-485 adopts data flow auto 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 3.84mm pitch terminal blocks
Indicator	Power supply indicator, Ethernet port indicator, serial port indicator

Electrical Specifications

Power Supply	Wide DC power input 12~48VDC (12V/24V/48V typical) 7.62mm industrial terminal block No-load Consumption：< 1.2W (@24VDC) Full-load Consumption： < 1.68W (@24VDC)

Mechanical Specifications

Length	40mm
Width	103mm
Depth	128mm

Weight	430g

Operation Environment Specifications

Operating Temperature	-40^{0}C to 85^{0}C
Storage Temperature Range	-40°C to 85°C
Humidity	5% ~ 95% (no condensing)

Certification

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

Approvals

Compliance/Certifications	CE / RoHs / FCC

PIN	1	2	3	4	5
RS485	D+	D-	GND		
RS422	T+	T-	GND	R+	R-