Industrial Ethernet Switch   IES306-2F-402

◆ **4-Port RS485 Modbus Gateway+4-Port 100M Ethernet+2-port 100M Fiber Industrial Ethernet Switch**

➢ Features

- Support 4-port RS485 +4-port10/100BASE-T(X) RJ45 ports+2-port 100M fiber
- Support Modbus TCP to Modbus RTU Gateway function
- Support TCP Server, TCP Client, UDP mode
- Conforms to TCP, IP, UDP, ModbusTCP, ModbusRTU, ARP, ICMP, HTTP, and TFTP client protocols;
- Supports Modbus Slave mode, the maximum support of 4 TCP master connections in Slave mode;
- 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 IP40 and high level EMC protection
- Support wide range voltage 12~48V DC power input and over-current protection function;
- Build-in 2 KV electrical plus protection in RJ45
- Support 4 serial isolation function, isolated voltage 500V AC;
- Support DIN-Rail Mounting and Wall Mounting
- Working temperature: -40～85℃

➢ Introduction

The 4-channel RS-485 serial gateway adopts high-strength IP40 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 4*10/100Base-T (x) RJ45 port , 4-channel RS-485 serial port and 0~2*100Base optical 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. Built-in ModbusTCP and ModbusRTU protocol, the user can easily realize Modbus Ethernet device and Modbus serial device connection. 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.

➢ **Specification**

Technical Standard	
Standard	Protocol: IEEE802.3,IEEE802.3u
Interface	
Serial	RS-485 supports A and B half-duplex working mode; communication rate support 110~115200bps optional, isolated voltage 500V AC; Built-in ModbusTCP and ModbusRTU protocol, support Modbus Slave mode, Slave mode to maximize the support of 4 TCP master Connection; communication rate supports 300~115200bps optional
RJ45	10/100BASE-T(X) auto-Negotiation speed, auto duplex mode and MDI/MDI-X connection;
Exchange Property	
Ten trillion forwarding speed	14881pps
Fast forwarding speed	148810pp
Transmission way	store-and-forward
Switching bandwidth	1.2Gbps
Buffer memory size	1Mbits
MAC address table	1K
Serial Port Attribute	
Standard	RS-485
RS-485 signal	D+, D-, GND
Check digit	None, Even, ODD
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 side supports 32 point polling environment (customizable 128 points)
Interface form	RS-485 and adopts 5-bit 5.08mm spacing terminal
Interface protection	4000V surge protection
Indicator Lamp	
Power indicator	PWR
System running indicator	SYS
Fiber indicator	FX
Serial port data status indicator	COM
Power Supply	
Input	Redundant wide power input 12~48VDC (12V/24V/48V typical) with 4-bit 7.62mm industrial power terminal
No-load Consumption	< 3.12W (@24VDC)
Full-load Consumption	< 3.84W (@24VDC)
Mechanical Properties	
Working temperature	-40~85℃
Storage temperature	-40℃~ 85℃
Relative humidity	5%~95%（non-condensing）
Shell	IP40 protection, metal shell

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Installation	DIN-Rail or wall Mounting
Weight	600g
Size (L×W×H)	60.2mm*138.5mm*109mm
Standard	
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 ±2KV
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
Shock	IEC 60068-2-27
Free fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
General Industrial Standard	IEC61000-6-2
Warranty time	5years
Certificates	CE, FCC, RoHS

➢ **Dimension**
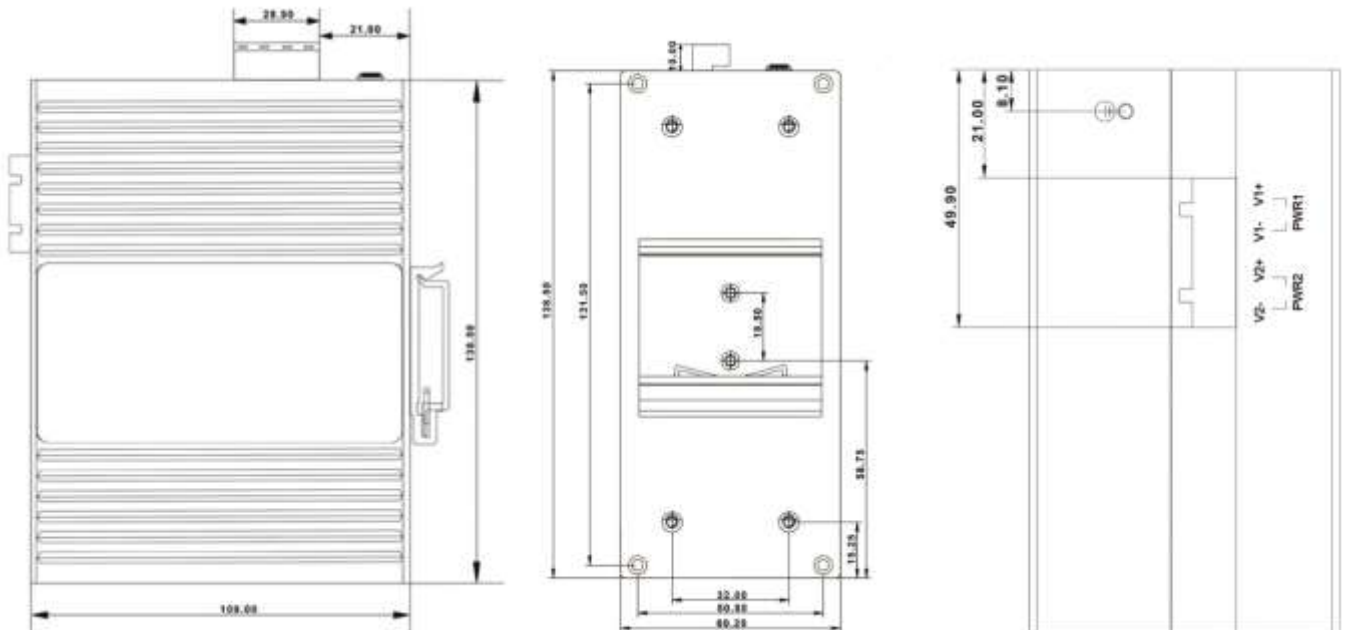
➢ Application
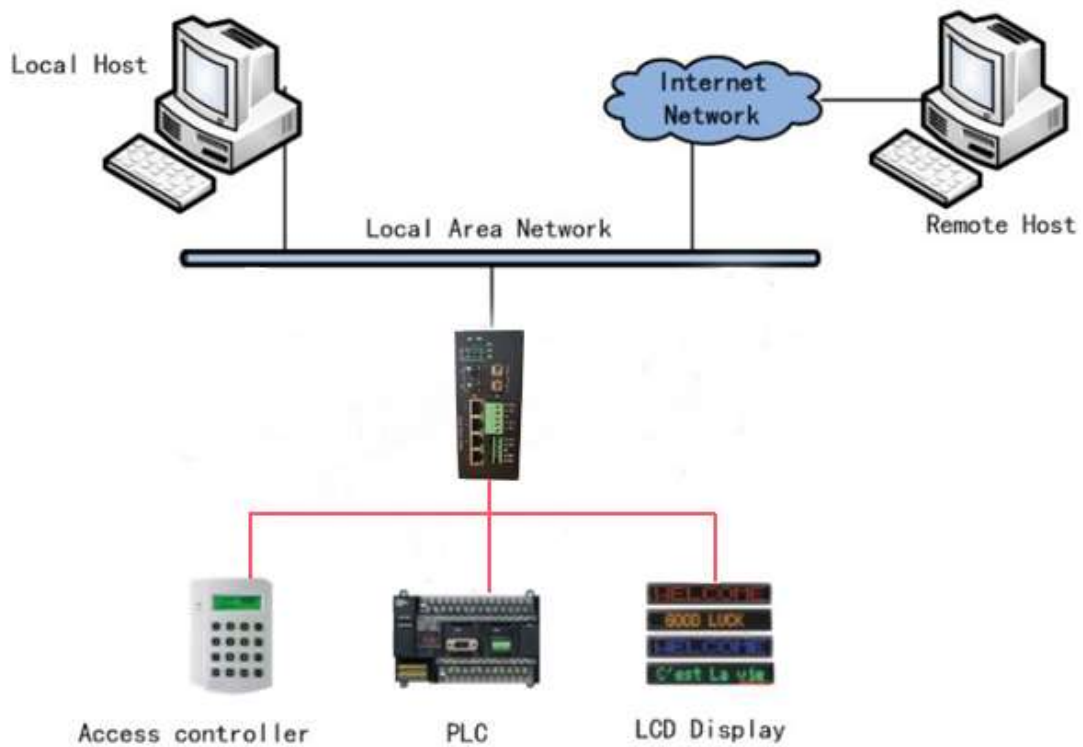
➢ Installation
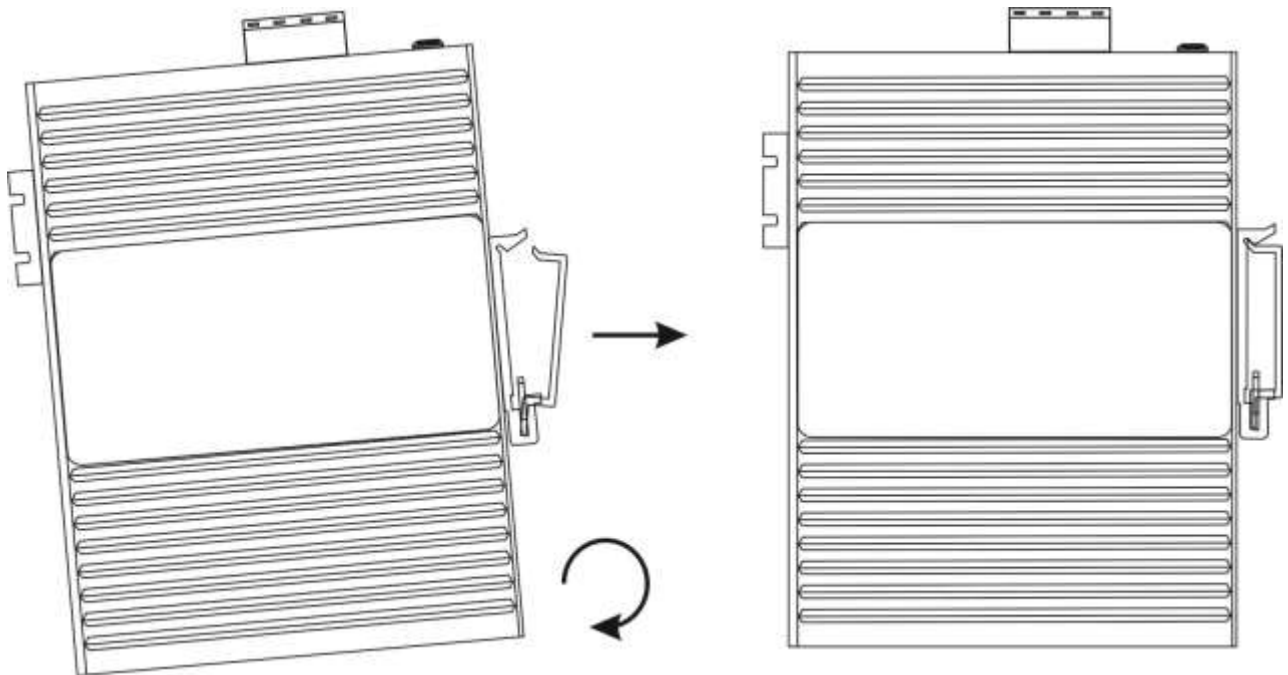
➢ Order information

Model NO.	Description
IES306-402	4-channel RS-485 serial port gateway+4-port 10/100Base-T(X) RJ45,DC12-48V
IES306-F-402	4-channel RS-485 serial port gateway+4-port 10/100Base-T(X) RJ45+1-port 100M fiber,DC12-48V
IES306-2F-402	4-channel RS-485 serial port gateway+4-port 10/100Base-T(X) RJ45+2-port 100M fiber,DC12-48V

➢ Packing List

- IES306-2F-402×1
- User manual ×1
- CD × 1
- Warranty card ×1
- Certificate of quality×1