



## ◆ 4-port 100M RJ45 + 4-Port RS485+2-port 100M fiber, Din-Rail

### ➤ Features

- Support 4-port 10/100BASE-T(X) RJ45 + 4-port RS-485 +2-port 100M fiber;
- Support IEEE802.3/802.3u standard, store and forward Exchange Mode;
- Support TCP server, TCP client, UDP three serial transmission mode, 110~115200bps line speed non-blocking communication
- Support TCP, UDP, ModbusTCP, ModbusRTU, ARP, ICMP, HTTP, TFTP
- Support Modbus TCP(RTU\_MASTER)
- 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;
- Support 500V isolation for serial signals
- Support DIN-Rail Mounting and Wall Mounting
- Work in -40~85°C wide temperature.



### ➤ Introduction

The 4-channel RS-485 serial server 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 2-port 10/100Base-T (x) RJ45 and 4-channel RS-485 serial port and 2-port 100M fiber, 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°C working temperature range, can satisfy all kinds of industrial site requirements, provide convenient serial port communication solutions.

## ➤ Specification

### Technical Standard

Protocol IEEE802.3, IEEE802.3u

### Interface

RJ45 port 10/100BASE-T(X) auto-Negotiation speed, auto duplex mode and MDI/MDI-X connection

Serial port RS-485 supports A and B half-duplex working mode; communication rate support 110~115200bps optional, isolated voltage 500V AC.

### Exchange Property

Ten trillion forwarding speed 14881pps;

Fast forwarding speed 148810pps;

Transmission way store-and-forward;

Switching bandwidth 1.2Gbps;

Buffer memory size 1Mbits;

MAC address table 1K.

**Serial Port Attribute** Socket, Virtual serial , device management library

Standard RS-485;

RS-485 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 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

Power indicator PWR

System running indicator RUN;

Fiber indicator: FX;

Serial port data status indicator COM;

### Power Supply

Input 12~48VDC with 4-bit 7.62mm industrial power terminal;

No-load Consumption < 3.12W (@24VDC) ;

Full-load Consumption < 3.84W (@24VDC) ;

### Mechanical Properties

Dimension(W×H×D) 60.2mm×138.5mm×109mm;

Net weight 600g;

Housing Metal, IP40 protection;

Installation Wall mounting or DIN rail mounting.

### Operating Environment

Working temperature -40°C~85°C;

Storage temperature -40°C~ 85°C;

Relative humidity 5% ~ 95% (no condensing)

### Standards and Certifications

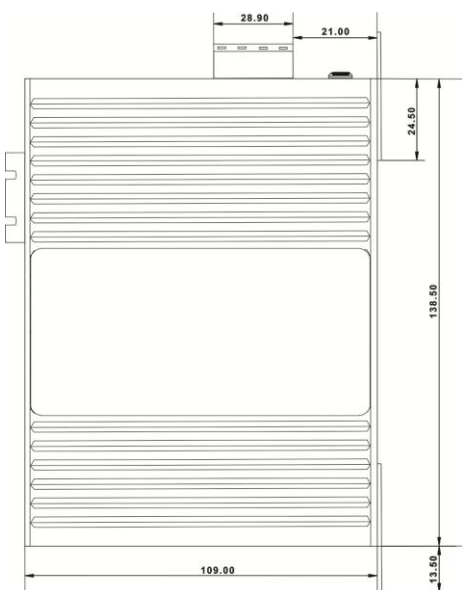
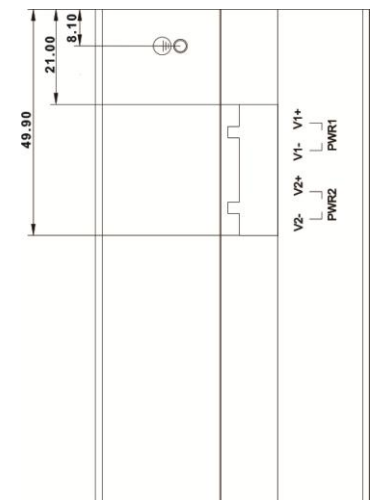
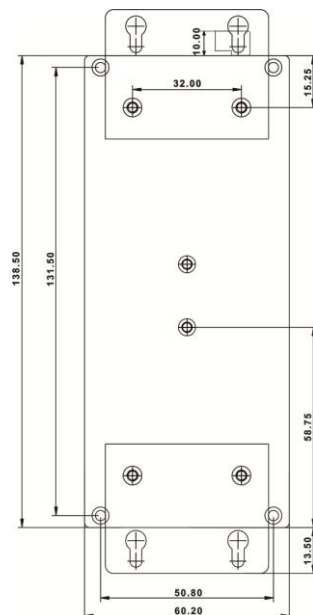
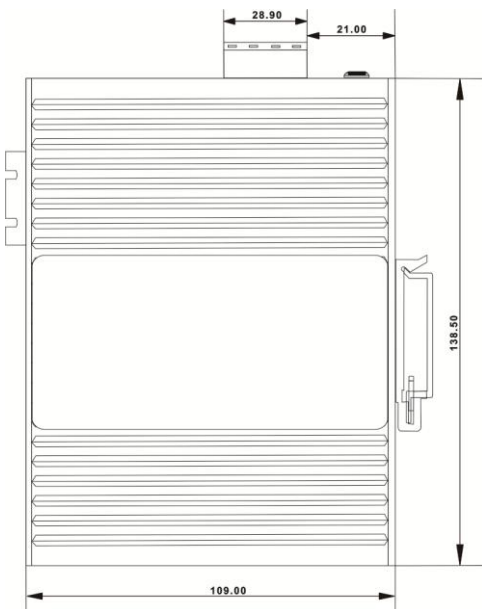
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|--------------------------|---|
| IEC61000-4-2(ESD)        | $\pm 8\text{KV}$ Contact, $\pm 15\text{KV}$ Air   |
| IEC61000-4-3(RS)         | 10V/M(80-1000MHZ)   |
| IEC61000-4-4(EFT)        | Power $\pm 4\text{KV}$ , Ethernet&Serial Data Cable $\pm 2\text{KV}$  |
| IEC61000-4-5(Surge)      | Power $\pm 4\text{KV}$ CM/ $\pm 1\text{KV}$ DM, Ethernet Data Cable $\pm 4\text{KV}$ CM,Serial Data Cable $\pm 1\text{KV}$ 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) |   |

Warranty

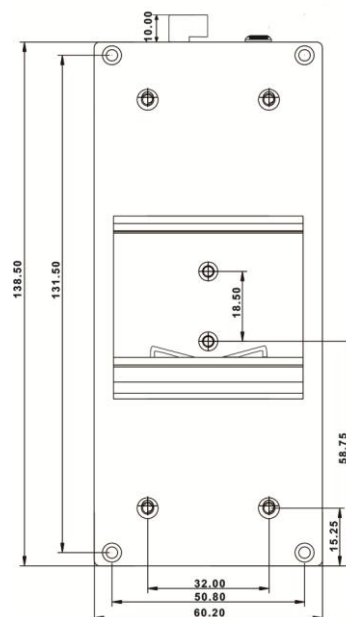
5 years

### ➤ Installation

#### DIN-Rail



#### Wall Mounting



## ➤ Order information

| Model NO. | Description  |
|-----------|--|
| MW1011    | 1-channel RS-485/422 + 1-port 10/100Base-T(X) RJ45, DC12-48V                               |
| MW2041    | 1-channel RS-485/422 + 4-port 10/100Base-T(X) RJ45, DC12-48V                               |
| MW2044    | 4-channel RS-485 + 4-port 10/100Base-T(X) RJ45, DC12-48V, 500V Isolation                   |
| MW2144    | 4-channel RS-485 + 4-port 10/100Base-T(X) RJ45+1-port 100M fiber, DC12-48V, 500V Isolation |
| MW2244    | 4-channel RS-485 + 4-port 10/100Base-T(X) RJ45+2-port 100M fiber, DC12-48V, 500V Isolation |

## ➤ Packing List

- MW2244 Industrial Serial Device Server×1
- User manual ×1
- Warranty card ×1
- Certificate of quality×1