



## 4-Port RS485/422 + 2-port 10/100BASE-T(X), Din-Rail, DC12-48V

### ➤ Features

- Support 2-port 10/100BASE-T(X) + 4-port RS-485/422;
- Support IEEE802.3/802.3u standard, store and forward Exchange Mode;
- Support TCP server, TCP client, UDP and Modbus TCP(RTU) serial transmission modes;
- Support 300~460800bps line speed non-blocking communication;
- Support TCP, IP, UDP, Modbus TCP, Modbus RTU, ARP, ICMP, HTTP and TFTP Client protocols;
- Support RTU Master mode, maximum support 16 TCP master connections in this mode;
- Support Web management;
- Support serial port settings, can connect two serial devices via Ethernet;
- Supports gateway, cross-routing communication;
- Low-power consumption design;
- Support 4 serial ports isolation function, isolation voltage 500V AC;
- Metal housing with IP40 and high level EMC protection;
- Support wide voltage 12-48V DC power input;
- Support DIN-Rail Mounting or Wall Mounting installation;
- Working temperature range: -40~85°C;
- Warranty: 5 years



### ➤ Introduction

UPCOM MW1024 Din-Rail industrial serial server support 4-channel RS-485/422 + 2-port 10/100Base-T(X), adopts high-strength IP40 protective shell, industrial-grade EMC design, supports Auto-Negotiation adaptive technology, provides LED status indication, and supports voltage 12~48V DC power input to increase the reliability of the communication network.

UPCOM MW1024 can easily and conveniently centralize the management of scattered serial devices and hosts through the network. The communication rate supports 300~460800bps optional. Built-in Modbus TCP and Modbus RTU protocol make it easy for users to connect Modbus Ethernet devices to Modbus serial devices. Based on industrial installation requirements, DIN35 rail or Wall Mounting installation mode provided. This product adopts the industry excellent network solution, and the operating temperature range is -40~85°C, which can meet the requirements of various industrial serial communication solutions.

### ➤ Application Industries

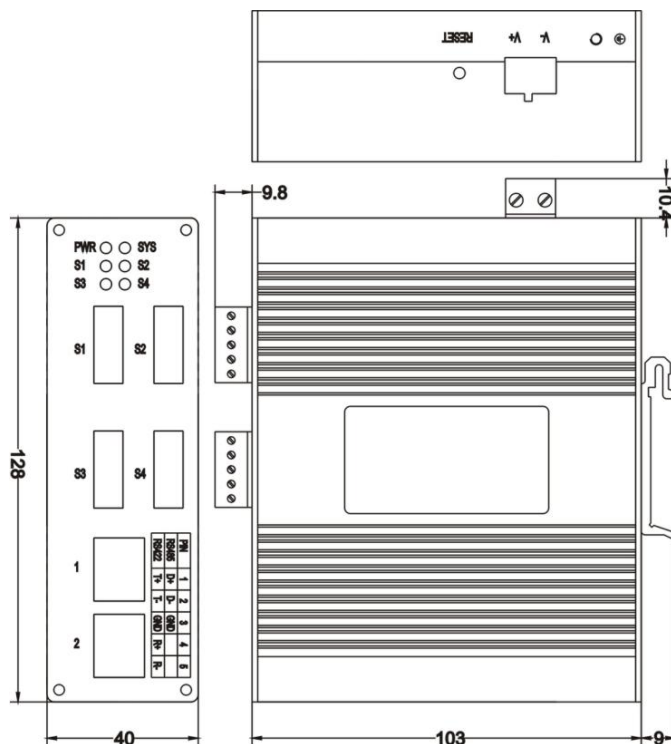
- Industrial Automation
- Intelligent transportation supervisory system (ITS)
- High-speed Way supervisory/Tele-Communication System
- New Energy and Utilities
- Rail transportation industry

## ➤ Specification

| Interface                         |   |
|-----------------------------------|---|
| RJ45 port                         | 10/100BASE-T(X) Auto-Negotiation speed,full/half duplex mode and MDI/MDI-X self-adaption  |
| Serial port                       | RS-422 supports R-, R+, T-, T+ full-duplex modes,RS-485 supports A and B half-duplex working mode; RS-485/422 communication rate support 300~460800bps optional, isolated voltage 500V AC; Built-in Modbus TCP and Modbus RTU protocols, support RTU Master mode, maximum support 16 TCP master connections in this mode. |
| Ethernet Attribute                |   |
| 10M forwarding speed              | 14881pps  |
| 100M forwarding speed             | 148810pps   |
| Rate                              | 10M/100Mbps   |
| Transmission way                  | Store and forward   |
| Interface connector               | RJ45  |
| Serial Port Attribute             |   |
| Standard                          | RS-485/422  |
| RS-422 signal                     | T+, T-, R+, R-, GND   |
| RS-485 signal                     | D+, D-, GND   |
| Check bits                        | None, Even, ODD   |
| Data bits                         | 5bit, 6bit, 7bit, 8bit  |
| Stop bits                         | 1bit, 2bit  |
| Baud rate                         | 300~460800bps   |
| Directional control               | RS-485 adopts data flow auto control technology   |
| Load capacity                     | RS-485/422 port supports 32 points polling environment ,can up to 128   |
| Interface connector               | RS-485/422 port adopts 5-bit 3.84mm spacing terminal  |
| Interface protection              | 4000V surge protection  |
| LED Indicator                     |   |
| Power indicator                   | PWR   |
| System running indicator          | SYS   |
| Serial port data status indicator | S1/S2/S3/S4   |
| Power Supply                      |   |
| Input                             | Wide voltage 12~48V DC power input,typical working voltage 12V/24V/48V,using 2-cores 7.62mm industrial power terminal   |
| Idle running power                | 0.717W@24VDC  |
| Full-load power                   | 0.968W@24VDC.   |
| Physical Characteristics          |   |

|                          |   |
|--------------------------|---|
| Shell                    | Metal, IP40 protection  |
| Installation             | Wall mounting or DIN rail mounting  |
| Dimension                | 40mm×103mm×128mm (W*H*D)  |
| Net weight               | 430g  |
| Working Temp             | -40~85°C  |
| Storage Temp             | -40~85°C  |
| Relative Humidity        | 5%~95% (no-condensation)  |
| <b>Industry standard</b> |   |
| IEC61000-4-2             | ESD: ±8KV Contact Discharge, ±15KV Air Discharge                                    |
| 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/ ±1KV DM, Ethernet Data Cable±4KV CM, Serial Data Cable±1KV CM |
| IEC61000-4-6             | Radio Frequency Conduction: 3V(10KHZ-150KHZ),10V(150KHZ-80MHZ)                      |
| IEC61000-4-16            | Common Mode Conduction: 30V COUNT 300V, 1S  |
| IEC60068-2-6             | Vibration   |
| IEC60068-2-27            | Shock   |
| IEC60068-2-32            | Free Fall   |
| IEC61000-6-2             | General Industrial Standard   |
| <b>Warranty</b>          |   |
| Warranty                 | 5 Years   |
| Certification            | CE, FCC, RoHS (pending)   |

## ➤ Dimension



## ➤ Ordering Information

| Model NO. | Description  |
|-----------|--|
| MW1011    | 1-channel RS232/RS-485/422 + 1-port 10/100Base-T(X) RJ45, DC12-48V, 500V Isolation |
| MW1012    | 2-channel RS-485+ 1-port 10/100Base-T(X) RJ45, DC12-48V, 500V Isolation            |
| MW1024    | 4-channel RS-485/422 + 2-port 10/100Base-T(X) RJ45, DC12-48V, 500V Isolation       |
| MW1028    | 8-channel RS-485/422+ 2-port 10/100Base-T(X) RJ45, DC12-48V, 500V Isolation        |

## ➤ Packing List

- Industrial Serial Device Server \*1
- User manual \* 1
- Certificate of quality \* 1
- Warranty card \* 1