The GW-7472 (EtherNet/IP adapter to Modbus RTU Master/TCP Client Gateway) is helpful for data-exchanging between the Modbus RTU/TCP network and the EtherNet/IP network. It reads the register data from the Modbus RTU slaves as well as Modbus TCP servers and publishes these data to the input register data of the EtherNet/IP scanner. The output data transmitted by the EtherNet/IP scanner are updated to the register data of Modbus RTU slaves/TCP servers via the GW-7472. Through the GW-7472, all of the Modbus slaves/servers can be regarded as one EtherNet/IP adapter.

**Features**

- Powerful 32-bit MCU handles efficient network trafficking
- Tiny form-factor and low power consumption
- Made from fire retardant materials (UL94-V0 Level)
- Supports TCP, UDP, DHCP, BOOTP and TFTP protocols
- Ethernet Protocol: EtherNet/IP Adapter
- Modbus Protocol: Modbus RTU Master/Modbus TCP Client
- Maximum support 30 Modbus RTU commands
- Maximum support 10 Modbus TCP Servers
- Support 8 Modbus TCP commands for each TCP server
- Maximum EtherNet/IP Input/Output data size: 500 bytes

**Utility Features**

- Network parameters configuration
- UART parameters configuration
- Modbus devices configuration
- Auto search GW-7472 device
- Easy test to transmit/receive EtherNet/IP data

**Wire Connection**

**Modbus RTU Command Support**

<table>
<thead>
<tr>
<th>Function code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 (0x01)</td>
<td>Read Coil Status</td>
</tr>
<tr>
<td>02 (0x02)</td>
<td>Read Input Status</td>
</tr>
<tr>
<td>03 (0x03)</td>
<td>Read Holding Registers</td>
</tr>
<tr>
<td>04 (0x04)</td>
<td>Read input Registers</td>
</tr>
<tr>
<td>15 (0x0F)</td>
<td>Force Multi Coils</td>
</tr>
<tr>
<td>16 (0x10)</td>
<td>Preset Multi Registers</td>
</tr>
</tbody>
</table>
**Hardware Specifications**

### Hardware

**CPU**
- 32-bit MCU

**UART Interface**
- COM 1: 2-wire RS-485, 4-wire RS-422
- COM 1 Connector: 10-Pin Removable Terminal Block x 1
- Protocol: Modbus RTU master

**Ethernet Interface**
- Ethernet: 10/100 Base-TX, 8-pin RJ-45 x 1, (Auto-negotiating, Auto-MDI/MDIX, LED indicator)
- PoE (IEEE 802.3af, Class 1)
- Protocol: EtherNet/IP adapter and Modbus TCP client

**Power**
- Power supply: PoE: IEEE 802.3af, Class 1
  - DC jack: +12 ~ 48 V$_{DC}$
- Power Consumption: 0.05 A @ 24 V$_{DC}$

**Mechanism**
- Dimensions: 52mm x 95mm x 27mm (W x L x H)
- Mounting: DIN-Rail
- Flammability: Fire Retardant Materials (UL94-V0 Level)

**Environment**
- Operating Temperature: -25 ~ 75 ℃
- Storage Temperature: -30 ~ 80 ℃
- Humidity: 10 ~ 90% RH, non-condensing

### Application

GW-7472 CR
EtherNet/IP to Modbus RTU/TCP gateway with PoE and one RS-422/485 (RoHS)

### Ordering Information