



## GW-7472-UL series

EtherNet/IP to Modbus RTU/TCP Gateway

### Features

- Tiny form-factor and low power consumption
- 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 servers
- Maximum EtherNet/IP Input/Output data size: 500 bytes



### Introduction

The GW-7472-UL series (EtherNet/IP adapter to Modbus RTU Master and Modbus TCP Client Gateway) is helpful for data-exchanging between the Modbus RTU Network, Modbus 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/Modbus TCP servers via the GW-7472-UL series. In order to save the installation space, the GW-7472-UL series is offered in an amazing tiny form-factor that makes it easy to install in anywhere, even directly attached to a serial device or embedded into a machine. The GW-7472-UL series features a powerful 32-bit MCU to handle efficient network traffic and it provides the IEEE 802.3af-compliant (classification, Class 1) Power over Ethernet (PoE) with a standard category 5 Ethernet cable. Through the NS-205PSE, PoE switch, the GW-7472-UL series can be powered via the Ethernet cable. When there is no PoE switch on site, the GW-7472-UL series provide another way to be powered from DC adapters. These two power interfaces are redundant. If one fails, another will take it over to supply the proper power to the GW-7472-UL series.

The GW-7472-UL series modules have obtained UL certification, meeting strict safety standards including fire resistance, electric shock protection, and durability requirements. This ensures stability and safety across various usage environments, providing consumers with reliable quality assurance. The UTA version uses conformal coating technology that offers excellent resistance to moisture and salt spray, making it particularly suitable for coastal and high-humidity environments.

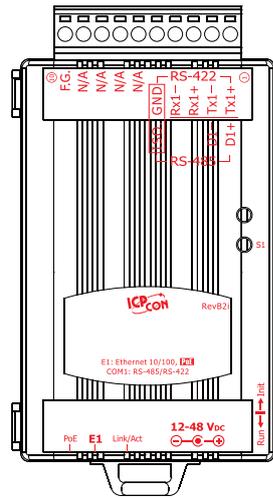
### Applications



## Specifications

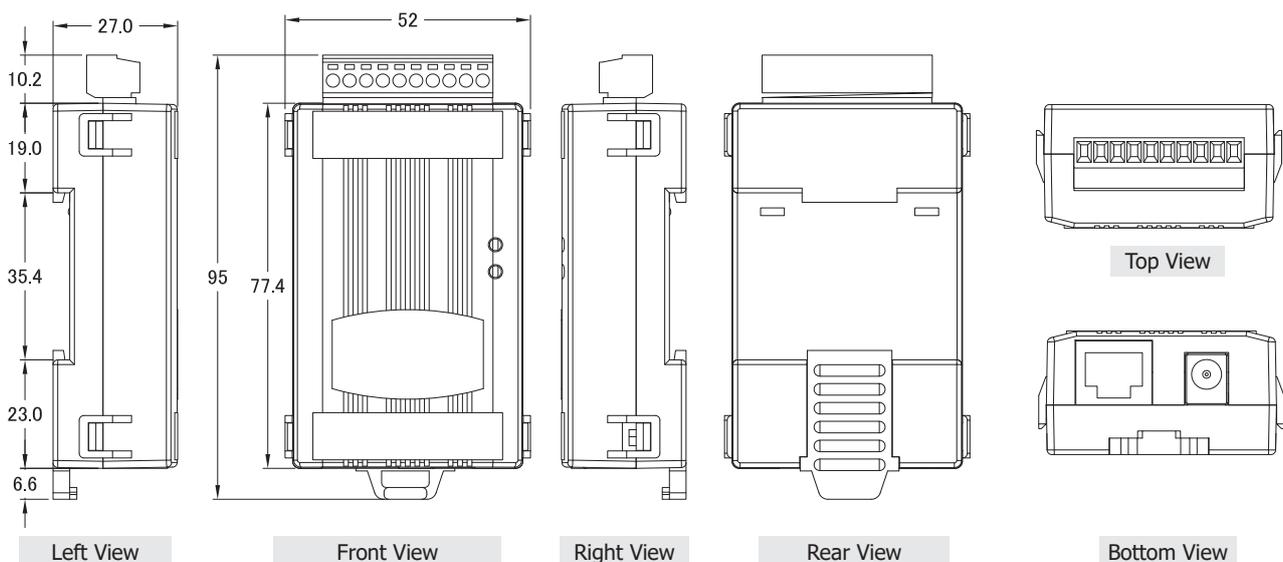
UART Interface	
COM 1	2-wire RS-485 4-wire RS-422
COM 1 Connector	10-Pin Removable Terminal Block x 1
Protocol	Modbus RTU master
Ethernet Interface	
Ethernet	10/100 Base-TX, 8-pin RJ-45 x 1, (Auto-negotiating, Auto-MDI/MDIX, LED indicator) PoE (IEEE 802.3af, Class 1)
Protocol	EtherNet/IP adapter and Modbus TCP client
Power	
Power supply	PoE: IEEE 802.3af, Class 1 DC jack: +12 ~ 48 VDC
Power Consumption	0.05 A @ 24 VDC
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 ~ +70 °C
Storage Temperature	-30 ~ +80 °C
Humidity	10 ~ 90% RH, non-condensing

## Pin Assignments



Interface	Pin	Description
RS-422	Tx1+	Transmit Data +
	Tx1-	Transmit Data -
	Rx1+	Receive Data +
	Rx1-	Receive Data -
RS-485	D1+	Data +
	D1-	Data -

## Dimensions (Units: mm)



## Ordering Information

<b>GW-7472-UL CR</b>	EtherNet/IP to Modbus RTU/TCP Gateway with PoE and 1 RS-422/485 (RoHS) (CA-002-UL)
<b>GW-7472-UL-UTA CR</b>	EtherNet/IP to Modbus RTU/TCP Gateway with PoE and 1 RS-422/485 (RoHS) (-40 °C Operating Temperature) (CA-002-UL)