

Model: UT-6808MT-GW

(Product Name: Modbus Gateway)

Datasheet



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1. Overview

UT-6808MT-GW provides Modbus gateway functionality, which can convert data from multiple cascaded Modbus RTU slave devices into Modbus TCP messages, supporting access control by multiple Modbus TCP masters. It can also convert data from multiple Modbus TCP slave devices into Modbus RTU messages, supporting access control by multiple Modbus RTU masters.

2. Major Functions & Features

- It features a metal casing and is designed for various installation methods, making it suitable for industrial control field applications.
- Wide power input range (12~48VDC) suitable for different power supply systems in various settings.
- Up to 8 RS485/RS422 ports, satisfying the needs of multiple serial port applications.
- Supports a wide range of baud rates from 300-921600bps, applicable for communication between different devices.
- Supports multiple operating modes: ModbusRTU Master/Slave, ModbusTCP Master/Slave.
- Supports web firmware upgrade for easy customization in different circumstances

3. Technical Parameters

Model	UT-6808MT-GW
Processor	32bit 400MHZ
Memory	128M
Ethernet interface	10/100M (embedded with 1.5KV electromagnetic isolation) adaptive MDI/MDI-X Ethernet interface, RJ45 interface
Serial port	RS-485, RS-422
Port	8 x 4-pin 3.81mm terminal block
Indicator light	Power indicator light PWR, operation indicator light RUN
Power interface	DC-005 DC socket or 3-pin 5.08 terminal block can be used for power supply, and it has built-in reverse polarity protection to prevent damage to the equipment caused by positive and negative connections being reversed.
Power supply range	DC12~48V
Function button	One factory reset button RESET
Maximum power consumption	2W
Casing	Metal casing, protection level IP30
Operating environment	Storage temperature: -40~85 ° C Operating temperature: -40~85 ° C Relative humidity: 5%~95% (non-condensing)

Dimensions L × W × H	161mm x 91mm x 37mm (excluding mounting components)
Net weight	Weight: 350g

4. Software Parameters

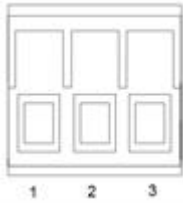
System	Based on Linux
Protocol support	ARP、IP、ICMP、UDP、TCP、HTTP、DHCP、MODBUS
Configuration method	Web browser
Operating mode	ModbusRTU Master/Slave, ModbusTCP Master/Slave
Baud rate	300-921600bps
Data bits	5、6、7、8
Stop bits	1、2
Parity check	None、Odd、Even

5. Certification standards

EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC61000-4-2 ESD: Contact discharge 4kV, air discharge 8kV. IEC61000-4-3 RS: 80MHz-1GHz 3V/m. IEC61000-4-4 EFT: Power supply 1kV, signal 0.5kV. IEC61000-4-5 Surge: Power supply differential mode 1KV, common mode 2KV (1.2/50 us). Ethernet port differential mode 1KV, common mode 2KV (10/700 us). RS-232/485/422 differential mode 0.5KV, common mode 1KV (10/700 us). IEC61000-4-6 CS: 150KHz-80MHz 3V/m

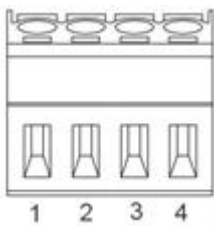
6. Interface definitions

1. Power interface terminal definition



5.08 Terminal Block Power Interface	Power Interface
1	Power Positive Pole V+
2	Connect to Ground (PGND)
3	Power Negative Pole V-

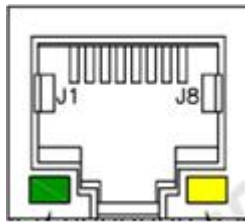
2. Definition of Serial Port Terminal Pins



3.81 Terminal	RS-485	RS-422	Explanation
1	T/R+	TX+	Transmit/Receive Positive
2	T/R-	TX-	Transmit/Receive Negative
3		RX+	Receive Positive
4		RX-	Receive Negative

3. Definition of Ethernet RJ45 Interface

The pin definitions for 100Base-T are shown in the following table



The green light indicates 'link' and the yellow light indicates 'ACT'

Pin number	MDI Signal	MDI-X Signal
1	BI_DA+/TX+	BI_DB+/RX+
2	BI_DA-/TX-	BI_DB-/RX-
3	BI_DB+/RX+	BI_DA+/TX+
4	-	-
5	-	-
6	BI_DB-/RX-	BI_DA-/TX-
7	-	-
8	-	-

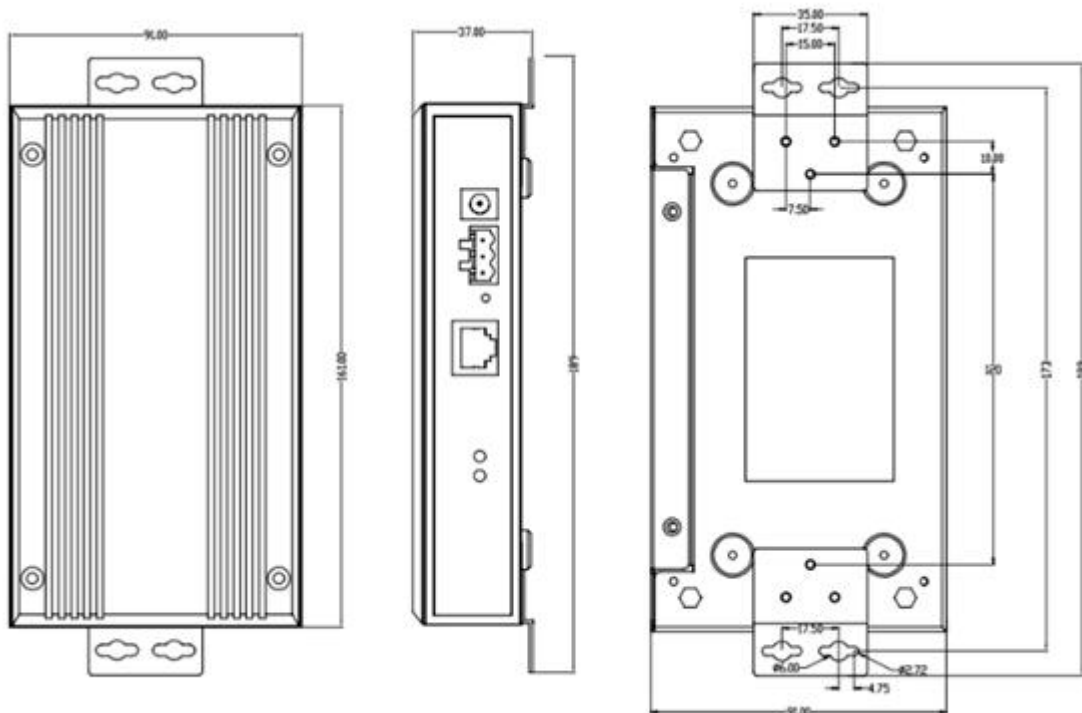
Note: "TX±" denotes transmit data ±, "RX±" denotes receive data ±, and "-" indicates unused

6. Appearance



7. Structure dimensions

- Physical dimensions: Length 161±0.5mm, Width 91±0.5mm, Height 37mm±0.5mm



10. Accessories

Name	QTY(unit)
UT-6808MT-GW Device	1PCS
Certificate of Conformity	1PCS
Warranty Card	1PCS
Fixing Plate	2PCS