

## Model: UT-6804-GW

(Product Name: Modbus Gateway)

# Datasheet



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## 1. Overview

UT-6804-GW provides Modbus gateway functionality, which can convert data from multiple cascaded Modbus RTU Slaves into Modbus TCP messages and supports access control by multiple Modbus TCP Masters. It can also convert data from multiple Modbus TCP Slaves into Modbus RTU messages and supports access control by multiple Modbus RTU Masters.

## 2. Major Functions & Features

- The product adopts a metal shell and is designed with multiple installation methods, suitable for industrial control field applications.
- Wide power supply input (12~48VDC), suitable for different on-site power supply methods.
- Up to 4 RS232\RS485\RS422 interfaces are available, meeting the demands of multi-serial port applications.
- Supports a wide range of baud rates from 300-921600bps, suitable for applications between different devices.
- Supports multiple operating modes: Modbus RTU Master/Slave, Modbus TCP Master/Slave.
- Supports firmware upgrade via Web, making it convenient for special applications in different situations.

## 3. Technical Parameters

Model	UT-6804-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-232, RS-485, RS-422
Port	4×RJ45
Indicator light	Power indicator light PWR, operation indicator light RUN
Power interface	DC-005 DC jack or 3Pin 5.08 terminal power supply mode, with built-in reverse connection protection to avoid damaging the equipment due to positive and negative polarity reversal
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

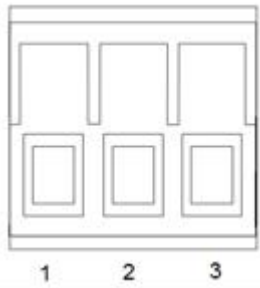
System	Based on Linux
Protocol support	ARP、IP、ICMP、UDP、TCP、HTTP、DHCP、MODBUS
Configuration method	Web browser
Operating mode	ModbusRTU Master/Slave, ModbusTCP Master/Slave
Baud rate	300-921600bps
Data bits	5、6、7、8
Stop bits	1、2
Parity check	None、Odd、Even
Flow control	RTS/CTS、DTR/DSR、XON/XOFF (only RS-232)

## 5. Certification standards

EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC61000-4-2 ESD: contact 4kV, air 8kV IEC61000-4-3 RS: 80MHz-1GHz 3V/m IEC61000-4-4 EFT: power supply 1kV, signal 0.5kV IEC61000-4-5 Surge: power 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

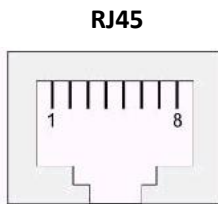
## 6. Interface definitions

### 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. Pin Definitions for UT-6804-GW Serial RJ45 Connector



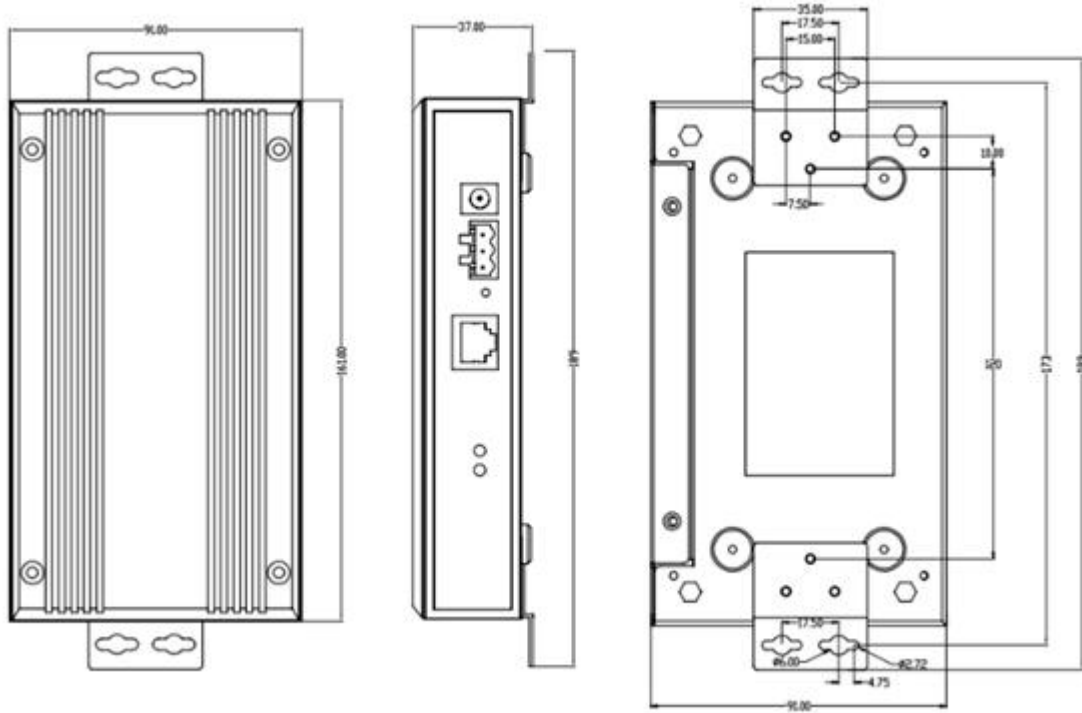
RJ45	RS-232	RS-485	RS-422
1	TxD	DATA+	TxD+
2	RxD	DATA-	TxD-
3	RTS		RxD+
4	CTS		RxD-
5	DSR		
6	GND	GND	GND
7	DTR		
8	DCD		

## 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-6804-GW Device	1PCS
Certificate of Conformity	1PCS
Warranty Card	1PCS
Fixing Plate	2PCS