

## Model:UT-6802MT-I

(Product Name: 10/100M to 2 ports 485/422 Isolated Serial Device Server)

# **Datasheet**



### **UTEK TECHNOLOGY (SHENZHEN) CO., LTD.**

Add: Room 1001, Building 7, Skyworth Innovation Valley, No. 8, Tangtou No.1 Road,

Shiyan Old Street, Bao 'an District, Shenzhen

Tel: +86-755-81202008 Fax: +86-755-27886083 Http: <u>www.uotek.com</u>



#### 1. Overview

UT-6802MT-I serial device server provides a serial to network function that converts RS-485/422 serial ports into TCP/IP network interfaces, enabling transparent bi-directional data transmission between RS-485/422 serial ports and TCP/IP network interfaces. Enables serial devices to immediately have TCP/IP network interface functionality.

### 2. Major Functions & Features

- With metal housing and multiple installation design, suitable for industrial control site applications.
- Wide power input (12~36VDC or 12~48VDC), suitable for input and output isolation method to supply power, with stronger anti-interference ability, more reliable and safer.
- Up to 2 RS485/RS422 ports, between each serial port and between the system and serial port are
  isolated from each other, which makes the system work more reliable and safer. Isolation withstand
  voltage is 1KV.
- Support a wide baud rate range of 300-921600bps, suitable for applications between different devices.
- Support multiple operation modes: VCOM, MCP, TCP SERVER, TCP CLIENT, UDP CLIENT, Reverse Telnet Mode, Remote Pair mode, Modbus TCP SERVER, Modbus TCP CLIENT, MQTT.
- Support upgrade web firmware upgrade, convenient for special applications in different scenarios.

#### 3. Technical Parameters

	UT-6802MT-I		
СРИ	32bit 400MHZ		
RAM	128M		
Ethernet interface	10/100M (built-in)1.5KV electromagnetic isolation) auto MDI/MDI-X Ethernet interface, RJ interface		
Serial standard	RS-485. RS-422 signal isolation output		
Serial port	2×4Pin 3.81mm terminals		
Indicator light	Power indicator light PWR. Running indicator light RUN		
Power connector	DC-005 DC socket or 3Pin 5.08 terminal for power supply, with built-in protection against reverse connection, to avoid damage to the equipment by wrong positive and negative connection		
Power range	DC12~36V(power input and output)		
Function buttons	1 factory reset button RESET		
Max. Power consumption	1.6W		
Housing	Metal housing, protection level IP30		
	Storage temperature: -40~85°C		
Operating environment	Operating temperature: -40~85°C		
	Relative humidity: 5% ~95% (Non-condensation)		
dimensions L×W×H	100mm×80.8mm×80mm (Without mounting parts)		
Net. Weight	350g		



### 4. Indicator definitions

Name	Color	Function	Status
PWR	Red	Power Indicator	On
RUN	Green	System running indicator	0.5S on, 0.5S off flash alternately
DATA1	Green	Serial port 1 data transceiver indicator	With data, flash; no data, off
DATA2	Green	Serial port 2 data transceiver indicator	With data, flash; no data, off

## **5. Software Parameters**

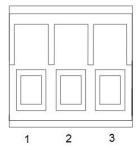
Operating System	Based on Linux		
Protocol support	ARP,IP, ICMP, UDP, TCP, HTTP,DHCP,SNMP,MQTT,MODBUS		
Configuration method	Configuration method Web browser, VCOM Utility(Virtual COM 仅Windows)		
Operating Mode	VCOM,MCP,TCP SERVER,TCP CLIENT,UDP CLIENT, Reverse Telnet Mode ,Remote Pair mode, Modbus TCI		
	SERVER, Modbus TCP CLIENT,MQTT		
Baud rate	300-921600bps		

## 6. Certification standards

EMC	55032/24		
EMI	Class A		
EMS	IEC61000-4-2 ESD: Contact 6kV, Air 8kV		
	IEC61000-4-3 RS: 80MHz-1GHz 3V/m		
	IEC61000-4-4 EFT: Power 1kV, Signal0.5kV		
	IEC61000-4-5 Surge: Power differential mode 1KV, common mode 2KV(1.2/50 us)		
	Ethernet ports differential mode 1KV, common mode 2KV(10/700 us)		
	RS-485/422 differential mode 1KV, common mode 2KV(10/700 us)		
	IEC61000-4-6 CS: 150KHz-80MHz 3V/m		

## 7. Interface definitions

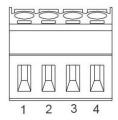
#### 1. Power interface terminal definition:



5.08 Terminal	Power interface
1	V+
2	PGND
3	V-



#### 2. UT-6802MT-I series terminal pin definition:



3.81	RS-485	RS-422	Dagovietica	
Terminal	K3-485	K3-422	Description	
1	T/R+	TX+	Transmit/receive+	
2	T/R-	TX-	Transmit/receive-	
3		RX+	Receive+	
4		RX-	Receive-	

## 8. Appearance



UT-6802MT-I

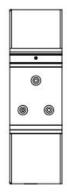
## 9. Structure dimensions

Dimensions: Length  $100\pm0.5$ mm, Width  $80.8\pm0.5$ mm, Height 30mm $\pm0.5$ mm.





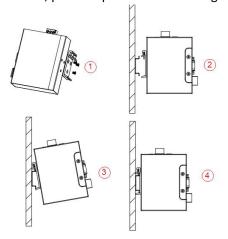






#### 10. Installation

DIN-rail installation:Install the rail seat that comes with the machine according to step 1 in the figure. After installation, press steps 2 and 3 into the guide rail slot, After the installation is complete as shown in step 4.



# 11. Packaging







### 12. Accessories

Name	QTY(unit)	
UT-6802MT-I Device	1PC	
CD	1PC	
Certificate	1PC	
Warranty	1PC	
Rail seat	1PC	



# 13. Ordering

Model	Supply voltage	Serial interface	Communication mode
UT-6802MT-I	12-36V(isolated)	3.81 terminal	RS485
01-08021011-1			RS422
UT-6802MT-I-48	12-48V(non-isolated)	3.81 terminal	RS485
01-00021011-1-40			RS422