

UT-6801A-GW

1-Port RS-232/485/422 MODBUS GATEWAY



Datasheet

Overview

This product provides Modbus gateway function. It can convert multiple Modbus RTU slave data to Modbus TCP data, and it supports multiple Modbus TCP Master visit and control; Or it can convert multiple Modbus TCP data to Modbus RTU data, and it supports multiple Modbus RTU Master visit and control.

Feature

- Metal housing, suitable for industrial field application
- Wide input voltage: 12~57.6VDC
- 1* RS-232/485/422 port
- Baud rate: 300~921,600bps
- Mode: Modbus RTU Master/slave, Modbus TCP Master/slave
- Supports firmware WEB upgrade
- Wide operating temperature: -40°C to 85°C

Hardware

Processor	32bit LX6 240MHZ
Memory	520K
Ethernet interface	10/100M (embedded with 1.5KV electromagnetic isolation), auto-MDI/MDI-X, RJ-45 connector
Serial port	RS-232, RS-485, RS-422
Port type	DB9 & 4-pin 3.81 terminal block
LED indicator	PWR, RUN, serial port indicator
Power port	DC-005 DC socket or 3-pin 5.08 terminal block, built-in reverse polarity protection
Power supply	DC12~57.6V
Function button	Reset button RESET
Maximum power consumption	12V@100mA
Housing	Metal, IP30 protection
Installation	DIN-Rail or wall mounting
Altitude	0~4,000m
Operating environment	Storage temperature: -40~85°C Operating temperature: -40~85°C Relative humidity: 5%~95% (non-condensing)
Dimension (L×W×H)	100mm x 80.8mm x 30mm (excluding mounting components)
Net weight	248g

Software

Protocol support	ARP, IP, ICMP, UDP, TCP, HTTP, DHCP, MODBUS
Configuration method	Web browser, VCOM Utility(Windows only)
Operating mode	Modbus RTU Master/Slave, Modbus TCP Master/Slave
Baud rate	300-921,600bps
Data bit	5, 6, 7, 8
Stop bit	1, 2
Parity check	None, Odd, Even
Flow control	RTS/CTS, DTR/DSR, XON/XOFF(RS-232 only)

Standard

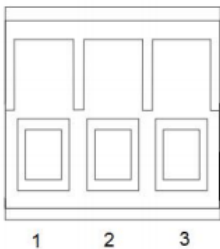
Item	Requirement	Standard
Conducted interference	CLASS A	EN55032
Radiated interference	CLASS A	EN55032
EFT	Signal: 1kv, repeat frequency 5Hz; Tr/Th: 50ns Criterion: B	IEC61000-4-4
ESD	Contact discharge: 6KV Air discharge: 8KV Criterion: B	IEC61000-4-2
CS	Strength: 3V Frequency segment: 150kHz~80MHz Criterion: A	IEC61000-4-6
RS	Field strength: 3V/m Frequency segment: 80MHz~2.7GHz Criterion: A	IEC61000-4-6
SURGE	Power: 1KV(line to line) 2KV(line to GND) 1.2/50 Signal: 0.5KV(line to line) 1KV(line to GND) 10/700 Criterion: B	IEC61000-4-5

LED indicator definition

Definition	LED color	Function	Status
PWR	Red	Power indicator	Power connection on, power dis-connection off
RUN	Green	System running indicator	0.5s on, 0.5s off, flash alternately
DATA	Green	Serial port data transmission indicator	With data transmission flash, without data transmission off

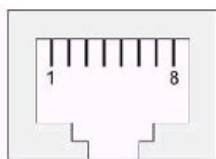
Interface definition

Power port definition



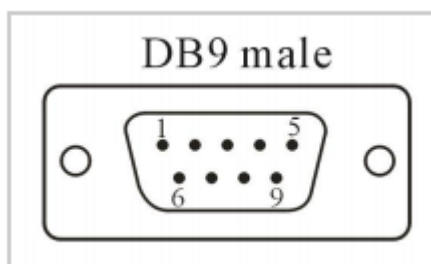
5.08 terminal block	Power port
1	V+
2	PGND
3	V-

Ethernet port RJ-45 definition



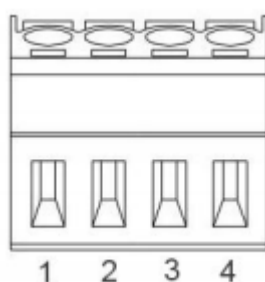
PIN No.	MDI signal	MDI-X signal
1	BI_DA+/TX+	BI_DB+/RX+
2	BI_DA-/TX-	BI_DB-/RX+
3	BI_DB+/RX+	BI_DA+/TX+
4	-	-
5	-	-
6	BI_DB-/RX-	BI_DA-/TX-
7	-	-
8	-	-

RS-232 port DB9 PIN definition



DB9 male	RS-232
1	N/C
2	RXD
3	TXD
4	N/C
5	GND
6	N/C
7	RTS
8	CTS

RS-485/422 port PIN definition



3.81 terminal block	RS-485	RS-422
1	T/R+	TX+
2	T/R-	TX-
3		RX+
4		RX-

Dimension

Dimension

Unit: $\frac{\text{mm} \pm 1.5}{(\text{inch}) \pm 0.06}$

