Model:UT-6802A series

(Product Name: 10/100M to 2 ports RS-232/485/422 serial port server)

Datasheet

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1.Overview

UT-6802A series serial device server, also called terminal server or serial server, is a converter between asynchronous serial port RS232/422/485 and Ethernet. It is an independent intelligent device with CPU, embedded OS and complete TCP/IP protocol stack. Complete bidirectional transparent transmission of data between RS232/422/485 and Ethernet, allowing RS232/422/485 serial devices to connect to the network immediately.

Support dynamic IP (DHCP) and static IP, support gateway and proxy server, can transmit data through the Internet. It provides two-way transparent transmission of data and realizes the function of serial port to TCP/IP, and the user does not need to make any modification to the original system. Internally integrate ARP, IP, TCP, HTTP, ICMP, SOCKET, UDP, MODBUS and other protocols. Provide an interface for custom protocol access. All programs have setup wizards, so you can use them as long as you know how to use a computer.

1. Major Functions & Features

hardware features

- Provide virtual COM driver software under Windows;
- With a serial port, it can be connected to various serial devices such as terminals, Modem, bar code machine, cash register, ISDN, terminal adapter, serial printer and PC, and can realize remote control function;
- With a Reset key, which is used to restore the default factory state.
- With 10/100M adaptive Ethernet port;
- Each serial port provides 5 signals, including RXD, TXD, RTS, CTS, GND;
- 32-bit embedded 120MHz CPU, powerful overall performance;

software features

- Support ARP, IP, ICMP, UDP, TCP, HTTP, DHCP, MODBUS protocols.
- Support Windows extended serial port mode: Complete extended serial port (com) driver based on Windows platform, and provide simple and easy-to-use management program under Windows platform, which can drive up to 1024 serial ports under Windows. In this mode, each serial port of the serial server can be mapped to the local COM port of the Windows host. This means that using these serial ports is like using the local COM port on the host, and it also means that all existing software or communication modules applied to the original serial device can be used directly without modification.
- Terminal server parameter configuration: It can be configured by connecting to the terminal server through the web, so that you can easily apply the serial port server to your work.
- Support software upgrade: protect the user's investment.
- Support status monitoring: On the device, it not only provides indicator lights to analyze the working status of the server, but also collects statistics on the input/output data of the network port and each port, which can be analyzed by the system administrator.

security features

UT-6802A serial server adopts the following security mechanisms to ensure that users can use this product safely.

- The server management password can be set to prevent unauthorized modification of the serial server to ensure the security of the serial server configuration;
- You can limit the host name of the port to be logged in, and the host user who has not backed up the port will not be able to access the server to ensure the safe access of the server;
- You can limit the hosts or network segments that are allowed to access the server, and unauthorized users who are not backed up in the host list and network segment list will not be able to pass through the network access

device;

- Serial Server Factory IP Address 192.168.1.125 Subnet Code 255.255.255.0

2. Technical Parameters

| CPU	32bit LX6 240MHZ microprocessor
RAM	520K
Ethernet interface	10/100M (embedded 1.5KV electromagnetic isolation) adaptive MDI/MDI-X Ethernet interface, interface mode RJ45
Serial port	RS-232/485/422 three-in-one or RS-485/422
Serial interface	RJ45 or 4pin 3.81 plug-in terminal
Indicator light	Power indicator PWR, running indicator RUN, serial port transceiver indicator DATA.
Power interface	DC-005 DC socket or 3Pin 5.08 terminal power supply mode, built-in anti-reverse connection protection, to avoid damage to equipment by wrong connection of positive and negative
Power range	DC12~57.6V
Function button	1 factory reset button RESET
Max. power consumption	12V@150mA
Housing	Metal shell, protection grade IP30
Installation method	Default DIN-rail installation, fixed piece installation (wall-mounted optional)
Operating environment	Storage temperature: -40~85°C Operating Temperature: -40~85°C Relative humidity: 5% ~95% (non-condensing)
Altitude	0~4000m
Dimensions L×W×H	100mm×80.8mm×30mm (excluding mounting parts)
Net weight	248g

4. Interface map

1. Power interface terminal definition:
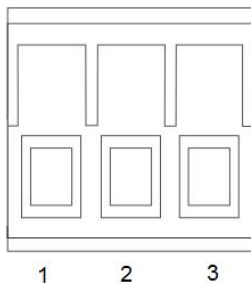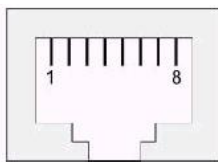

5.08 Terminal block	Power interface
1	V+
2	PGND
3	V-

2. Ethernet RJ45 port definition
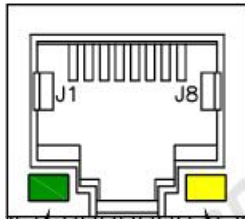
RJ45	Definition	Description
1	TX+	Transmit+
2	TX-	Transmit-
3	RX+	Receive+
6	RX-	Receive-
4，5，7，8	-	-

3. UT-6802A serial port RJ45 definition:

RJ45

Model:UT-6802A	
No.	RS-232
1	TXD (RS-232 transmit)
2	RXD (RS-232 receiving)
3	RTS (Request To Send)
4	CTS (Clear To Send)
5	-
6	GND
7	-
8	-

4. RS-485/422 terminal pin definition:
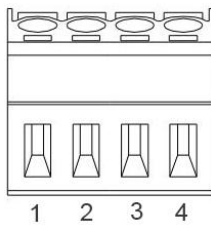
3.81 Terminal block	RS-485	RS-422	Description
1	T/R+	TX+	Send/receive+
2	T/R-	TX-	Send/receive-
3		RX+	Receive+
4		RX-	Receive-

8. Appearance

UT-6802A Serial Server

UT-6802AMT Serial Server