

Model: UT-1128

(Product Name: 8-Port RS-485 Isolated Hub)

Datasheet



UTEK TECHNOLOGY (SHENZHEN) CO., LTD.

Add: Floor 10, 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: www.uotek.com Your Reliable Partner in Industrial IoT

1. Overview

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UT-1128 is a RS-485 BUS hub with built-in dual core, and non-halt design. It is special design for RS-485 system under complicated electromagnetic field. The transmission rate can be as high as 115.2Kbps. To ensure the data communication safety and reliability, it adopts optoelectronic isolation technology, and provides with lightning and surge protection on RS-485 ports; the built-in optoelectronic isolator and 1,500W surge protection circuit provide 2,500V isolated voltage, this prevent the devices from lightning and ESD, and ground interference. With external power, UT -1128 is quite safe for outdoor projects.

Under RS-485 working mode, the circuit can distinguish the data flow direction, and switch it automatically to control the circuit; this easily solves the transmission delay issue. The transmission distance is over 1,200m. UT-1128 is a high performance converter, which is widely used in highway toll collection system, road monitoring system, and power collection system.

UT-1128 provides RS-485 BUS connection, each port supports short-circuit and open circuit protection. 2,500V isolated voltage allows user improve the RS-485 BUS structure, divide the network segment easily. When the device under lightning stroke or the device is breakdown, these network segments will be isolated, so as to ensure the other network segments working normally; this improves the RS-485 network reliability, makes the network maintain time be shorter. UT -1128 is the best choice for reliable RS-485 system.

2. Major Functions & Features

• Supports RS-232/RS-485 to 4 ports RS-485 hub

3. Technical Parameters

- Standards: RS-232C, RS-485 EIA/TIA
- Voltage input: DC12-48V 350Ma
- Transmission media: Twisted pair or shielded cable
- Working mode: Asynchronous half-duplex
- Indicators: signal, PWR, TX, RX, E1-E8
- Isolation: non-stop isolated voltage 2,500VRMS 500VDC, DC/DC isolated module
- Transmission rate: 300bps-115.2Kbps
- Protection:

Each wire 15KV ESD protection for RS-232 ports;

1,500W lightning and surge protection for RS-485 ports

- 2,000V lightning and surge protection for power supply
- Transmission distance: 0-1.2km (115,200-300bps)
- Dimension: 145x90x40mm
- Working environment: -40 ~ -85 $^\circ C$, relative humidity 5%-95%

No. Definition Remarks No. Definition Remarks 3rd RS485+ output VCC 1 Power + 25 A3 3rd RS485- output 2 Power -GND 26 **B3** 4th RS485+ output 3 Empty Empty 27 A4 4th RS485- output Earth connection 4-5 EARTH 28 **B4** 6-15 Empty 29-32 GND RS485 output ground Empty connection 5th RS485+ output 33 16 A RS485+ input A5 5th RS485- output 17 В RS485- input 34 **B5** 6th RS485+ output 18 GND1 Ground connection input 35 A6 RS232 receiving terminal 6th RS485- output 19 232RXD 36 **B6** 7th RS485+ output RS232 transmitting terminal 20 232TXD 37 A7 7th RS485- output 1st RS485+ output 21 A1 38 **B7** 8th RS485+ output 1st RS485- output 22 **B1** 39 **A8** 2nd RS485+ output 8th RS485- output 23 40 **B8** A2 2nd RS485- output 24 **B2**

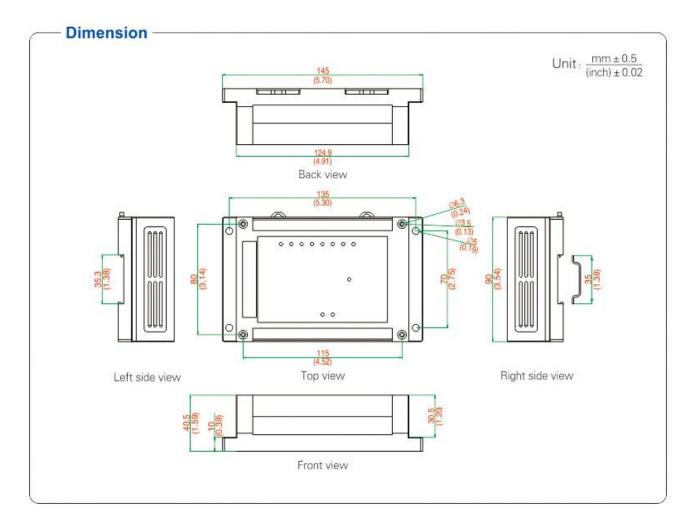
4. Interface Definition

5. Product View (Appearance)



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6. Structure dimensions



7. Ordering

Model	Signal/Port		Protoction			Environment			Device	
	RS-232/485 Terminal block	RS-485 Terminal block	Protection		Baudrate	Temperature Humidi		Humidity	Power	
			RS-232	RS-485/422		-25/70°C	-40/85°C	5-95%	Port- Powered	External Power
JT-1128	~	~	±15KVESD	1500W Surge	300bps-115.2kbps		~	~		12-48VD