

	Product Name	Key Feature
	<p style="text-align: center;"><b>UT-520</b></p> <p style="text-align: center;"><b>2 port RS-485/422</b></p>	

## INTRODUCED

### I. Summary:

Compatible with the Recommended Standard of RS-485, UT-520 photoelectric isolation data repeater can extend the communication distance of RS-485BUS network and increase the number of RS-485 network equipment. The built-in photoelectric isolator and the DC/DC isolation module can provide an isolation voltage of as high as 2,500Vrms. Also, there are rapid transient voltage suppression protectors for the protection of 2-port RS-485 interfaces at both end switch the advanced TVS (TRANSIENT VOLTAGE SUPPRESSOR) technology adopted. Under normal conditions, the TVS tube is in the state of high resistance. However, when both ends of the TVS tube are hit by a transient high energy, the impedance at both ends can be depressed by the TVS at a very high speed, and after absorbing a high current, the voltage between the two ends is suppressed and kept at a pre-set value, therefore no damage is caused to the electrical components behind by the transient high voltage impact. The protector can effectively restrain lightning or ESD (electro static discharge) with a protection voltage of 600W on each line for lightning surge and surge voltage or transient over voltage possibly caused up by various reasons, and at the same time, a high-speed transmission of 2-port RS-485 interface is ensured by the tiny capacitance between the poles. For both input and output, wiring post connectors (PIN) are used for connection. The unique I/O circuit of the internal zero delay auto transceiver contained in the converter controls the data stream direction automatically without any handshaking signal (for example RTS, DTR etc). The converter is plug-and-play without any jumper settings needed for mode shift to half duplex (RS-485).

A reliable and stable point-to-point and point-to-multipoint communication can be ensured by UT-520 photoelectric isolation interface converter. For point-to-multipoint communication, as many as 128 interface facilities of RS-485 standard can be connected to each converter, and a high data transmission rate of 300-115.2 KBPS can be achieved. Power indicator light and data traffic indicator light are also available with the converter for malfunction indication.

### II. Specification:

- Interface features: compatible with RS-485 standard of EIA/TIA.
- Electric interface: 10-bit wiring post connector for both input and output ends of RS-485.
- Protection Grade: Impose a protection of 600W on each line of RS-422 and RS-485 interfaces for lightning surge +/-15KVESD protection.
- Isolation degree: an isolation voltage of 2,500 Vrms, 500VDC non-stop and DC/DC isolation module.
- Working mode: asynchronous half-duplex.
- Signal indication: 5 indicator lights for Power (PWR), 2 for Send (TXD) and another 2 for Receive (RXD).
- Transmission media: twisted-pair cable or shielded cable.
- Transmission rate: 300-115.2KBPS
- Dimensions: 120mmX72mmX22mm
- Working environment: -40 to 85 , relative humidity 5% to 95%.
- Transmission distance: 0-5,000meters (115,200bps-9,600bps)

## INFORMATION ORDER

**MODEL: UT-520** External-powered, RS-485/422 x2 Repeater, Rail-mounted, PhotoElectric isolation