

Model:UT-2209

Industrial RS-485 Repeater with Isolation

Datasheet



1. Overview

UT-2209 is a repeater with optoelectronic isolation. It complies with RS-485 standard; it can extend the communication distance of RS-485 BUS network, and increase the quantity of RS-485 network devices. The built-in DC/DC isolated module can provide as high as 2,500Vrm isolated voltage; the fast transient voltage suppression on both sides is designed to protect RS-485 interface; it adopts advanced TVS (TRANSIENT VOLTAGE SUPPRESSOR); normally, TVS tube is in high impedance state; when both sides of TVS tube suffer from high power impact in a sudden, the voltage suppression will fast lower the impedance from both sides, and soak large current; with this, the voltage on both sides are fixed at presupposed value, protects the component of circuit from damage. This voltage suppression provides 600W each wire with lightning and ESD protection, and surge voltage and instant over voltage protection on circuit which causing by all reasons; the tiny inter-electrode capacitance ensures high speed transmission for RS-485 ports. RS-485 adopts 2-pin terminal block as input and output.

2. Major Functions & Features

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3. Technical Parameters

Standards: RS-485 TIA/EIA

Connector: RS-485 2 bits terminal block input

RS-485 2 bits terminal block output

• Protection: RS-485 provides with 600W lightning, surge, ± 15 KV ESD protection each line

Operating mode: asynchronous half-duplex

Signal indication: PWR TXD, and RXD activity

Transmission media: twisted-pair or shielded cable

Baud rate: 300BPS-115.2K BPS

Dimension: 89mm x 73mm x 22mm

Installation: Wall Mounting

Operating temperature: -40 ~ 85 °C

Relative humidity: 5 ~ 95 %(Non-condensing)

Transmission distance: 0-1,200m (115,200bps-9,600bps)

4. Pin assignment

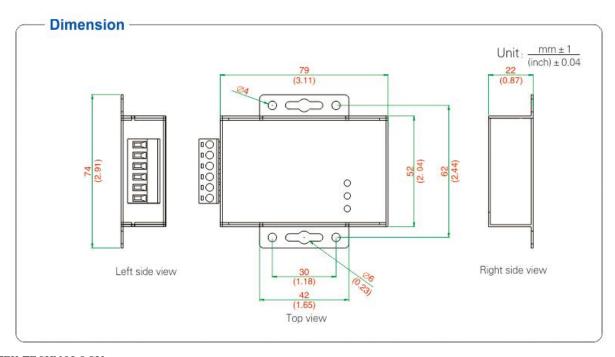
Input signal pin assignment

Terminals(Pin)	Signal Definitions	Signal Description DC9-24V input Power ground RS-485+ input RS-485- input RS-485+ Isolated output RS-485- Isolated output		
1	VCC			
2	GND			
3	T/R+			
4	T/R-			
5	T/R+			
6	T/R-			

5. Product View (Appearance)



6. Structure Dimensions





7. Ordering Information

Model	Signal/Port		Drotostion		Environment			Dawar	
	RS-485	RS-422	Protection	- Baud rate	Temperature		Humidity	Power	
	Inte	face	RS-485		- 25~70 ℃	-40~85℃	5~95 ℃	Port-powered	External power
UT-2209	٧		±15KV ESD/ 600W Surge	300bps-115.2kbps		٧	٧		9-24V