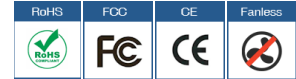


CTUS-029

USB to RS-485/422 Converter

Features:

- Operating Temperature: -40 ~ 85°C
- Surge Protection, ± 15 kV ESD Protection
- Baud Rate: 300 - 921,600 bps
- Supports connection of up to 32 RS-422 or RS-485 Interface Devices



Introduction:

CTUS-029 is a universal USB to RS-485/422 converter without the need of external power supply. It is compatible with USB, RS-422 and RS-485 standards, capable of converting single-ended USB signal to balanced differential RS-422 or RS-485 signals. It has surge protection per wire. The inter-pole capacitance ensures high speed transmission of RS-485/422 interfaces, with the RS-422 and RS-485 ports connected via DB9 male connectors.

The converter has zero-delay automatic transmission and reception conversion, and the unique I/O circuit automatically controls the direction of data flow without any handshake signal (such as RTS, DTR, etc.). It does not require jumper settings to achieve full-duplex (RS-232/RS-422) and half-duplex (RS-485) mode conversion, which ensures compatibility with all existing communication software and interface hardware.

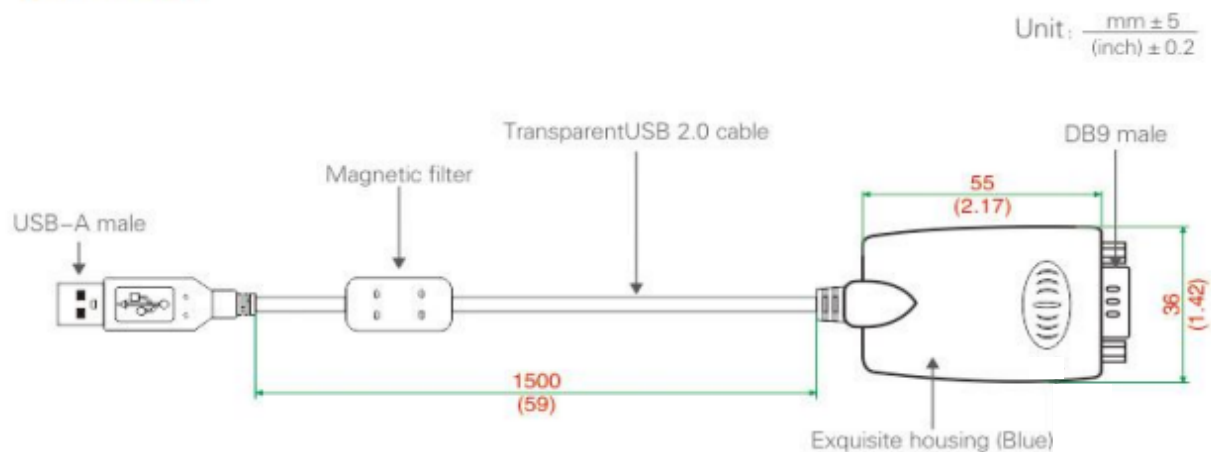
CTUS-029 can provide reliable connection for point-to-point and point-to-multipoint communication. Under point-to-multipoint mode, each converter can connect to up to 32 RS-422 or RS-485 interface devices. The data communication rate is 300 - 921.6 kbps, with power indicator and data flow indicator to indicate the fault situation.

Specification:

Hardware	
Standards	USB 1.0, 1.1 and 2.0; TIA/EIA RS-485/422
USB Signals	VCC, DATA-, DATA+, GND, FG
RS-485 Signals	T/R+, T/R-, GND
RS-422 Signals	T/R+, T/R-, RXD+, RXD-, GND
Operating Mode	Asynchronous, 2-wire Half-duplex or 4-wire Full-duplex
Data Flow Control	Automatic Data Flow Control Technique is Adopted to Automatically Determine and Control the Data Flow
Baud Rate	300 - 921,600 bps, Automatically Detecting the Data Rate
Load Capacity	Supports connection of up to 32 RS-422 or RS-485 Devices in Point-to-multipoint Mode
Communication Distance	1,200m for RS-485/422 Port (9,600 bps) 5m for USB Port

Interface Protection	Surge Protection, $\pm 15\text{kV}$ ESD Protection
Interface Connection	Type-A Male Connector for USB Port DB9 Male Connector for RS-485/422 Port
Signal Indicators	2 LED Indicators for Transmit (TXD) and Receive (RXD), 1 LED Indicator for POWER (PWR)
Transmission Media	Twisted-pair or Shielded Cable
Cable Length	1500 mm
Operating Temperature	-40°C to 85°C
Relative Humidity	5 ~ 95%
OS Support	Win2000/2003/2008/2012/XP/Vista/7/8/8.1/10/CE/Mac/Linux

Dimension Drawing:



Ordering Information:

CTUS-029

Plastic with Bolts, 1.5m, USB to RS-485/422 Converter USB 2.0, Point-to-point or Point-to-multipoint, Baud Rate: 300 - 921.6 Kbps Auto-detect Serial Signal, Transmission Distance: 1,200m (9,600 bps) for RS-485/422, 5m for USB, Operating Temperature: -40°C to 85°C

Other Models Are Available upon Request