

# USB to RS-422/RS-485 Converters

These intelligent USB to RS-422/RS-485 to USB serial adapter cables provide high-speed serial connectivity. The RS-485 port includes an Auto Transceiver Turn Around feature to automatically switch the half-duplex RS-485 transceiver between Transmit (Tx) mode and Receive (Rx) mode, removing the need for software or a separate RTS control signal from the host processor

**Features:**

- Provides one RS-422/RS-485 port over USB
- Supports 4-wire RS-422 and 2-wire RS-485 applications
- Supports RS-485 Auto Transceiver Turn Around via ATTA™ hardware
- Supports USB bus power
- RS-422/RS-485 baud rate up to 921.6 kbps
- USB1.1 and USB2.0 backward compatible
- DB9 male connector
- Hot swappable and Plug-and-Play features
- Compact size
- Supports Windows, Linux and macOS

**Hardware Requirements:**

- One available USB port on your PC
- If the RS-422/RS-485 port on your device is not a 9-pin female connector, you will need an additional adapter. The converters uses a 9-pin male connector.



[USB-RS4X-1](#)



[SE-USBC-RS4X-1](#)

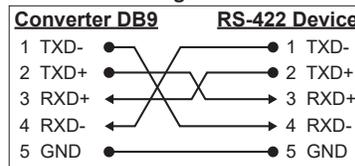
USB to RS-422/RS-485 Converter Specifications		
	<i>USB-RS4X-1</i>	<i>SE-USBC-RS4X-1</i>
<b>Price</b>	\$60.00	\$75.00
<b>Serial Port Connection</b>	RS-422/485 (9-pin D-sub male)	
<b>USB Connection</b>	USB A 2.0 plug	USB C 2.0 plug
<b>RS-422 Signals</b>	TXD+, TXD-, RXD+, RXD-, GND	
<b>RS-485 Signals</b>	DATA+, DATA-, GND	
<b>Serial Port Parameters</b>	Baud Rate from 300 bps to 921.6 kbps 7 or 8 Data Bits, 1 or 2 Stop Bits Odd, Even, Mark, Space, or None parity mode	
<b>Cable Length</b>	5.9ft [1.8m]	
<b>Operating System Compatibility</b>	Windows 7, 8.x, 10, 11 Linux Mac OS	
<b>Included Accessories</b>	Removable hex nuts	
<b>Power Requirements</b>	5 VDC, 110 mA (max), USB bus power	
<b>Operating Temperature</b>	0–55 °C [32–131 °F]	
<b>Operating Relative Humidity</b>	5 to 95%	

DIP Switch Settings				
Switch	Description	Default	OFF	ON
1	485/422	485 (OFF)	2-wire RS-485 mode	4-wire RS-422 mode
2	Echo*	NO ECHO (ON)	Transmitted data will be echoed back	No echo
3	Termination	NO TERM (OFF)	Termination resistor disabled	Termination resistor enabled
4	None	NA	Reserved for future use	Reserved for future use

The ECHO setting has no effect in RS-422 mode.  
Echo allows an application program to detect RS-485 bus collisions.  
If the echoed data does not equal the transmitted data, then a collision occurred.

## Male DB9 Pin Assignments and Cable Wiring

**RS-422 Cable Wiring**



**RS-485 Cable Wiring**

