USB to RS-485 Mini-Converters

485USBTB-2W & 485USBTB-4W

B+B SMARTWORX

Powered by ADVANTECH

PRODUCT FEATURES

- Connect RS-485 Devices to your USB Port
- Perfect for Field Service Applications
- Small – Fits easily into any laptop bag
- USB Port Powered
- USB 2.0 (12 Mbps) Compatible
- RS-485 Data rates up to 921.6 Kbps
- Removable Terminal Block for Easy Wiring
- High Retention USB Connector
- Supports Windows 98, ME, 2000, XP, Vista, 7 (32/64 bit), 8 (32/64 bit)

Universal Serial Bus (USB) has become the connectivity workhorse of today's PCs, replacing the familiar serial ports. However, many commercial and industrial devices still use the RS-485 interface. To connect these devices to modern PCs, you need a simple and reliable conversion solution. The 485USBTB-2W and 485USBTB-4W offer this solution in a space saving, USB Port powered package.

Simply install the drivers supplied on CD ROM and plug the converter into an available USB port on your computer or USB hub. The device will show up as an additional COM port in the Windows Device Manager which is fully compatible with your Windows applications. Select the 485USBTB-2W for RS-485 2-wire applications or the 485USBTB-4W for RS-485 4-wire applications. Locked serial number versions are also available (see the installation notes in the driver section). A one meter USB cable is included.

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
485USBTB-2W	USB to RS-485 2-Wire Converter
485USBTB-4W	USB to RS-485 4-Wire Converter
485USBTB-2W-LS	USB to RS-485 2-Wire Converter (Locked Serial Number)
485USBTB-4W-LS	USB to RS-485 4-Wire Converter (Locked Serial Number)

ACCESSORIES

USBAMBM-3F - 3 ft. (1 M) USB Cable (One Included)
7372 - Replacement TB (One Included)
Contact Customer Service for ordering information.

Locked Serial Numbers Explained

We configure our single-port USB to serial converters in two ways. In standard format, each product has a unique serial number. "Locked serial" format uses the same serial number that is associated with a model type.

If your converter will always be used with the same computer, the standard serialized model is all you need. If the converter is shared among several computers, like field service laptops, the locked serial number model lets you plug and play without having to worry about matching the two.

Description	Serialized	Locked Serial Number
Every unit is assigned a unique COM port	✔	-
Same type model numbers shares the same COM port	-	✔
Ideal applications	Fixed Locations	Field Service

When ordering Locked Serial Number versions, add a "-LS" to the item number. Serialized and Lock Serial Number versions sell for the same price.

SPECIFICATIONS

SERIAL TECHNOLOGY	
RS-485 2-Wire	Data A(-), Data B(+), Ground
RS-485 4-Wire	TDA(-), TDB(+), RDA(-), RDB(+), Ground
Connector	Removable Terminal Block (28 to 16 AWG)
Data Rate	Up to 921.6 Kbps

USB TECHNOLOGY	
Connector	USB Type B Female (High Retention)
Standard	2.0 (Backward Compatible)
Data Rate	12 Mbps

POWER	
Source	USB Port
Input Voltage	5 VDC
Consumption	~ 0.5 W (Low power device, draws less than 100 mA)

SOFTWARE	
Driver CD	Windows 98, ME, 2000, XP, Vista, 7 (32/64 bit), 8 (32/64 bit)

MECHANICAL	
Dimensions	6.5 x 3.2 x 1.6 cm (2.6 x 1.3 x .6 in)
Enclosure	In-line mounted, plastic
Weight	0.23 lbs (104.3 g) with USB Cable

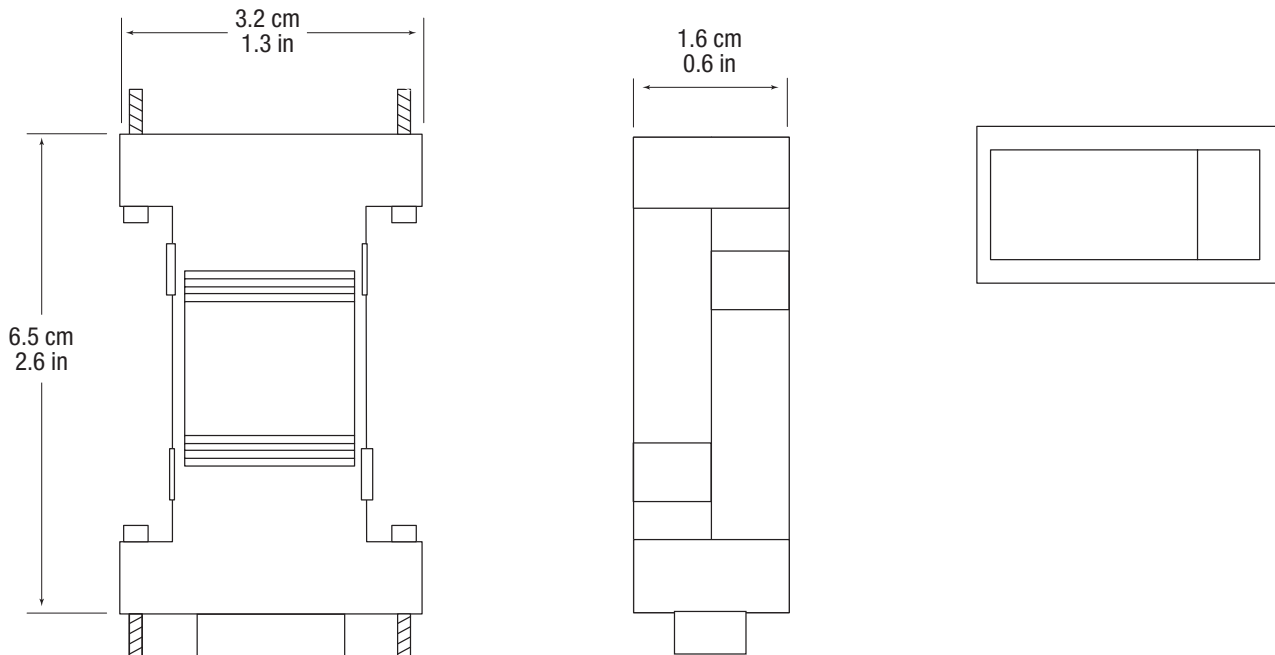| ENVIRONMENTAL	
Operating Temp	32 to 158°F (0 to 70 °C)
Storage Temp	-40 to 185 °F (-40 to 85 °C)
Op Humidity	0 to 95 % (Non-condensing)
MTBF	1869313 hours
MTBF Method	Parts Count Reliability Prediction

REGULATORY	
Approvals	FCC, CE

CERTIFICATIONS				
Test	Description		Test Level	Level
IEC 61000-4-2	ESD	Contact Air	±8kV ±15kV	±8kV ±15kV
IEC 61000-4-3	Radiated Immunity		3 v/m	3 v/m
IEC 61000-4-4	Burst (Fast Transient)	Serial USB	±500 ±500	±500 ±500
IEC 61000-4-6	Induced (Conductive) RFI	Serial USB	3 V RMS 3 V RMS	3 V RMS 3 V RMS
EN 55022/CISPR 22	Emissions		3 meters	Class B

MECHANICAL DIAGRAM

3.2 cm
1.3 in

1.6 cm
0.6 in

6.5 cm
2.6 in

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