# BB-485USB9F-4W-LS

### **USB to RS-485 Miniature Converters**



#### **Features**

- Connect RS-485 devices to your USB port
- Data rates: 921.6 kbps (RS-485); 12 Mbps (USB)
- · Quick, convenient in-line installation
- USB port powered
- USB 2.0 (12 Mbps) compatible
- Small fits easily into laptop bag; perfect for field service applications
- (1) USB cable included
- Locked Serial Number version (BB-485USB9F-4W-LS)

#### Introduction

Universal Serial Bus (USB) has become the connectivity workhorse of today's PCs, replacing the familiar serial port. 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. Models BB-485USB9F-4W and BB-485USB9F-4W-LS offer this solution in a space saving, USB port powered package.

Simply install the drivers 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. A one meter USB cable is included. Locked serial number versions are also available.

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## **Locked Serial Numbers Explained**

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

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

Note: Serialized and Lock Serial Number versions sell for the same price

## **Ordering Information**

Model No.	Description	
BB-485USB9F-4W	USB to RS-485 4-Wire Converter	
BB-485USB9F-4W-LS	USB to RS-485 4-Wire Converter — with Locked Serial Number	

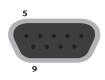
#### Accessories - Sold Separately

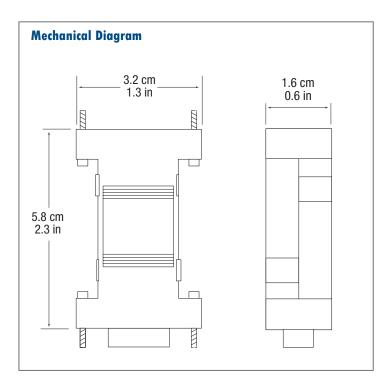
BB-USBAMBM-3F – USB cable, 0.91 m (3 ft), Type A male to Type B male (one included) BB-USBAMBM-6F – USB cable, 1.83 m (6 ft), Type A male to Type B male



# **BB-485USB9F-4W** BB-485USB9F-4W-LS

<b>DB9 Female Connector Pinout</b>	
Pin	Signal
1	Not Used
2	RDA(-)
3	TDB(+)
4	Ground
5	Not Used
6	Ground
7	RDB(+)
8	TDA(-)
9	Not Used





## **Specifications**

Serial Technology	Serial Technology		
RS-485 Connector	DB9 female		
RS-485 4-Wire	TDA(-), TDB(+), RDA(-), RDB(+), Ground		
Data Rate	Up to 921.6 kbps		
USB Technology			
USB Connector	USB Type B female		
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 XP, 7 (32/64 bit), 8 (32/64 bit), 8.1 (32/64), 10 (32/64)		
Mechanical			
Dimensions	5.8 x 3.2 x 1.6 cm (2.3 x 1.3 x 0.6 in)		
Enclosure	Plastic		
Mounting	In-line installation		
Weight	4.3 g (0.23 lb) with included USB cable		
Environmental			
Operating Temperature	0 to +70 °C (+32 to +158 °F)		
Storage Temperature	-40 to +85 °C (-40 to +185 °F)		
Operating Humidity	0 to 95%, non-condensing		
Meantime Between F	ailures (MTBF)		
MTBF	1869313 hours		
Calculation Method	Parts Count Reliability Prediction		
Regulatory – Approvals / Standards / Directives			
Approvals	FCC, CE		
CE - Directives	2014/30/EU – Electromagnetic Compatibility Directive (ECD) 2011-65/EU – amended by (EU) 2015/863 Reduction of Hazardous Substances Directive (RoHS) 2012/19/EU – Waste Electrical and Electronic Equipment (WEEE)		
CE - Standards	EMC: EN 55032:2015 Class B Electromagnetic Compatibility of Multimedia Equipment – Emission Requirements EN 55024:2010 Information Technology Equipment – Immunity Characteristics – Limits and M ethods of Measurement		
Other Standards	EN 61000-6-1 - Generic Immunity Standard for Residential, Commercial and Light-Industrial Environments		



Sales: +44 (0) 1273 570 220 Website: www.amplicon.com Email: sales@amplicon.com