



Model: 232USB9M

## USB to RS-232 Mini-Converter



### Features

- ✓ Connects an RS-232 device to your USB Port
- ✓ USB Port Powered
- ✓ USB 2.0 Compatible
- ✓ RS-232 Data Rates up to 460.8 kbps
- ✓ Automatic Configuration on Windows 98, ME, 2000, XP, and Vista

### Functional Description

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-232 interface. To connect these devices to modern PCs, you need a simple and reliable conversion solution. The 232USB9M offers this solution in a space saving, USB Port powered package. Simply plug the converter into an available USB port on your computer or USB hub and install the drivers supplied on CD ROM. 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.

### Ordering Information

Model Number	Description
232USB9M	USB to RS-232 Converter
<b>Accessory Items</b>	
USBAMBM-3F (One Included)	1 m (3ft) USB Cable
USBAMBM-6F	2 m (6ft) USB Cable
9PAMF6	2 m (6 ft) DB9 Male to DB9 Female Cable
9PAMF10	3 m (10 ft) DB9 Male to DB9 Female Cable
232NM9	3 m (6 ft) DB9 Female to DB9 Female Null Modem Cable
232NM9MF10	3 m (10 ft) DB9 Male to DB9 Female Null Modem Cable



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## Operation

- Drivers are included on the Compact Disk included with the converter. Simply connect the converter to an available USB port and insert the CD into the drive. The “Found New Hardware Wizard” will guide you through the installation process. The drivers are not available via Microsoft Windows Updates. When prompted to connect to Windows Updates to search for drivers, select “No, not at this time” and follow the instructions for installing from the CD.
- When the driver software is installed, the 232USB9M will show up in Windows Device Manager as the next available COM port labeled “RS-232 Port.” Configure the COM port for your application. The default setup is 9600 baud, 8 data bits, no parity, 1 stop bit, no flow control. The 232USB9M will also be listed under USB Controllers.
- To uninstall the drivers, follow the instructions contained in the uninstall “read me” file.
- The RS-232 connection uses a DB9 Male DTE connector. For more information concerning DTE and DCE connections, the RS-232 standard in general, and a pin-out diagram for this product; follow the links below Table 1.

**Table 1**  
**RS-232 Pin-out (DTE / DB9 Male)**

PIN	Direction	Signal Name
1	Input	DCD (Receive Line Signal Detector)
2	Input	RD (Receive Data)
3	Output	TD (Transmit Data)
4	Output	DTR (DTE Ready)
5	N/A	SG (Signal Ground)
6	Input	DSR (DCE Ready)
7	Output	RTS (Request to Send)
8	Input	CTS (Clear to Send)
9	Input	RI (Ring Indicator)

**General Specifications**


Input Power	5VDC from USB Port
Current Draw	Lower Power Device (<100 mA)
Operating Temperature	-40 to 176 °F (-40 to 80 °C)
Operating Humidity	0 to 95% Non-condensing
USB Connector	USB type B Female
RS-232 Connector	DB9 Male
USB Data Rate	12 Mbps
RS-232 Data Rate	460.8 kbps
USB Standard	2.0 (Backward Compatible)
RS-232 Configuration	DTE
Dimensions	2.3 x 1.3 x .6 in (5.8 x 3.2 x 1.6 cm)
MTBF	1946086 hours
Approvals	CE, FCC

**Web Links**

**B&B Technical Library**

[http://www.bb-elec.com/technical\\_library.asp](http://www.bb-elec.com/technical_library.asp)

**CE Declaration of Conformity**

<b>Manufacturer's Name:</b>	<b>B&amp;B Electronics Manufacturing Company</b>
<b>Manufacturer's Address:</b>	<b>PO Box 1040 707 Dayton Road Ottawa, IL 61350 USA</b>
<b>Model Number:</b>	<b>232USB9M</b>
<b>Description:</b>	<b>USB to RS-232 Converter</b>
<b>Type:</b>	<b>Light Industrial ITE Equipment</b>
<b>Application of Council Directive:</b>	<b>89/336/EEC</b>
<b>Standards:</b>	<b>EN55022 EN 61000-6-1 EN 61000 (-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11)</b>
 Michael J. Fahrion, Director of Engineering	



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