232USB9M USB to RS-232 Mini-Converter

- Connect RS-232 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-232 Data rates up to 460.8 Kbps
- ✓ Supports Windows 98, ME, 2000, XP, & Vista

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. Locked serial number versions are also available (see the driver installation notes at the end of this document). A one meter USB cable is included. Remember, when it comes to USB to Serial Conversion, B&B Electronics Ulinx[™] brand is your number one



Specifications

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	Serial Technology	
RS-232	TD, RD, DCD, DTR, GND, SDR, RTS, CTS,	
	RI	
Connector	DB9 Male (DTE)	
Data Rate	Up to 460.8 Kbps	
	USB Technology	
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 98, ME, 2000, XP, Vista	
Mechanical		
Dimensions	2.3 x 1.3 x .6 in (5.8 x 3.2 x 1.6 cm)	
Enclosure	In-line mounted, plastic	
Weight	0.23 lbs (104.3 g) with USB Cable	
	Environmental	
Operating Temp	32 to 158°F (0 to70 °C)	
Storage Temp	-40 to 185 °F (-40 to 85 °C)	
Op Humidity	0 to 95 % (Non-condensing)	
MTBF	1946086 hours	
MTBF Method	Parts Count Reliability Prediction	
	Regulatory	
Approvals	FCC, CE	
Ordering Information		
Model Number	Description	
232USB9M	USB to RS-232 Mini-Converter	
232USB9M-LS	USB to RS-232 Mini-Converter (Locked Serial	
	Number)	
Accessories		
USBAMBM-3F	3 ft (1 M) USB Cable (One Included)	





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Package Contents

- 232USB9M USB to RS-232 Mini-Converter
- 3ft (1M) USB Cable •
- Datasheet
- CD with Drivers for Windows 98, ME, 2000, XP and Vista

If any item is missing or damaged, contact B&B Electronics for a replacement.



6789

RS-232 Pin-out DB9 Male DTE

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)

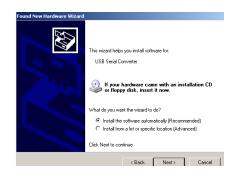
Driver Installation Screen shots are from Windows XP

THE FOUND NEW HARDWARE WIZARD WILL RUN TWICE. ONCE TO INSTALL THE USB DEVICE AND ONCE TO INSTALL THE SERIAL COM PORT.

- Connect the converter to your PCs USB port with the supplied cable.
- The Found New Hardware wizard will start.
- When prompted to connect to Windows Update to search for the driver, select "No, not at this time" and click on Next >



 Select Install the software automatically and click Next>



· A warning concerning Windows logo testing will be displayed. Click on Continue Anyway >

Hardware Installation 1 The software you are installing for this hardware: USB Serial Converter has not passed Windows Logo testing to verify its compatibility with Windows XP. (<u>Tell me why this testing is important</u>.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing. STOP Installation Continue Anyway

The Completing the Found New Hardware Wizard • will be displayed. Click on Finish >

THE FOUND NEW HARDWARE WIZARD WILL RUN TWICE. ONCE TO INSTALL THE USB DEVICE AND ONCE TO INSTALL THE SERIAL COM PORT.





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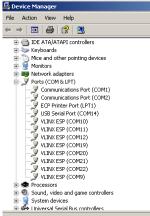
Check Drivers

Screen shots are from Windows XP

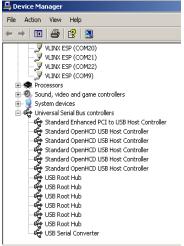
Right click on My Computer. Select the Hardware tab.



• Expand the Ports (COM & LPT) tree. The USB Serial Port will be listed as the next available COM Port.

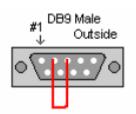


 Expand the USB Controllers tree. The USB Serial Converter will be listed.





• Loop back pins 2 and 3 on the DB9 M connector.



- Using Hyper Terminal or similar program, connect to the appropriate COM port. Set the desired baud rate. Ensure Hyper Terminal local echo is OFF.
- Transmit data. If the same character string is returned, the test is good.
- A detailed description of this test is located in the technical notes section of our web page, www.bb-elec.com.

Installation Notes

- These USB to serial converters are offered as serialized (each unit has a unique electronic serial number) or with locked serial numbers (each unit has the same electronic serial number). LS models are great for applications, such as field service, in which a pool of converters area shared.
- SEARIALIZED Select a serialized model if the USB to serial Converter is to be assigned to a unique COM port. If you plug in a converter with a different serial number, the driver installation procedure will be initiated again. This will also allocate another COM port and USB Controller in Windows. This will happen even if the first converter is not plugged in.
- LOCKED SERIAL NUMBER Select a locked serial number model (-LS suffix) if you desire different USB to serial converters of the same type to share a single COM port (one at a time). With the locked serial number models, you only need to install the driver once, provided two converters are not plugged in at the same time. The locked serial number products are intended for uses, such as field service, in which PC's and converters are mixed and matched.
- Instructions for uninstalling the driver are located on the CD ROM.



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