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PRODUCT INFORMATION

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**

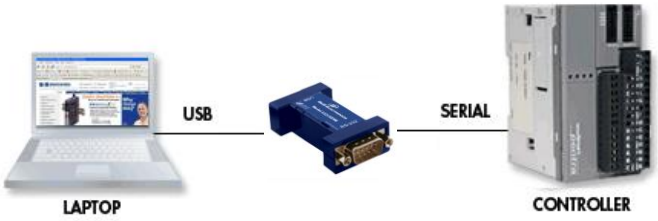
Universal Serial Bus (USB) has become the connectivity workhorse of today's PCs, replacing the familiar serial ports. However, many commercial and industrial devices still use the RS-232 interface. To connect these devices to modern PCs, you need a simple and reliable conversion solution. The 232USB9M 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

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.

DB9 Pin-out

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)

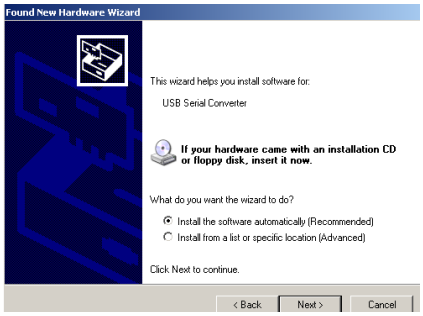
Driver Installation

Screen shots are from Windows XP

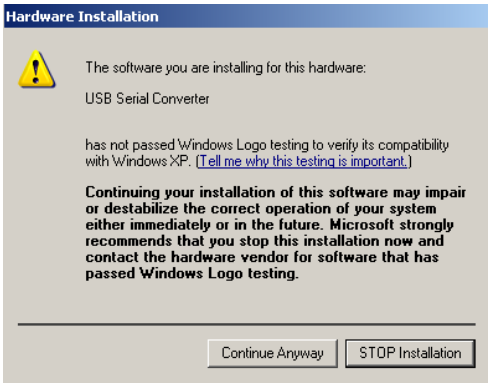
THE FOUND NEW HARDWARE WIZARD WILL RUN TWICE. ONCE TO INSTALL THE USB DEVICE AND ONCE TO INSTALL THE SERIAL COM PORT.

- 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 >



- 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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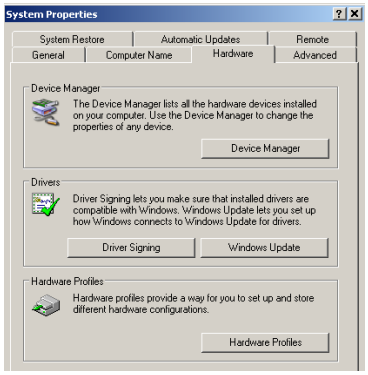
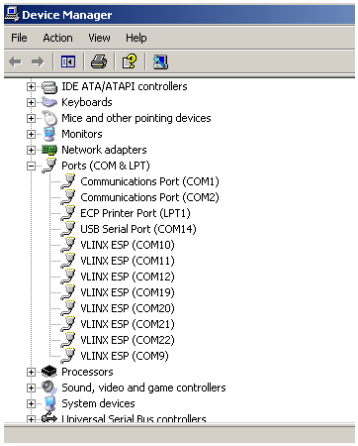
Check Drivers

Screen shots are from Windows XP

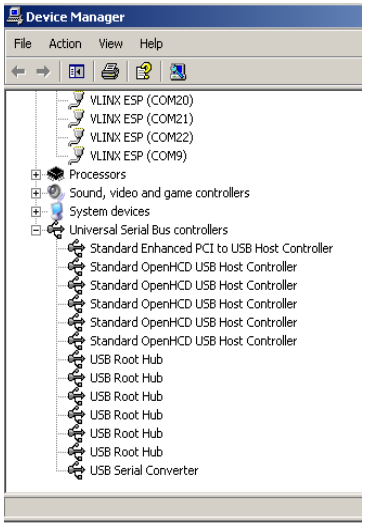
- Right click on My Computer. Select the Hardware tab.



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

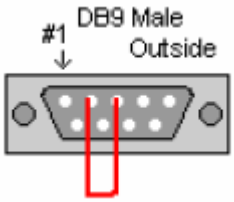


- Expand the USB Controllers tree. The USB Serial Converter will be listed.



Loop Back Test

- 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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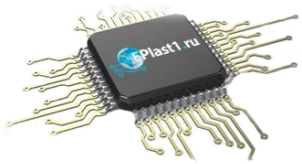
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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