

MWU104

USB to 4 ports RS232 converter

User manual

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1. Introduction

A quick and easy way to expand your PC's port count and to adapt serial devices to your USB PC. Edge port USB-to-Serial converters are intelligent expansion units that connect to a PC, thin client or server via a USB port. MWU104 provides four RS-232 serial ports, is compliant with USB 1.1 and 2.0 specifications, and meet the 480 Mbps high-speed requirement of Hi-Speed USB 2.0. Using your computer's USB ports to connect serial devices reduces the total cost of ownership, investment in hardware, and long term management and integration costs.

2. Packing List

MWU104 product is shipped with the following items:

- \odot MWU104 \times 1
- \odot 5VDC power adapter $\times 1$
- \odot CD for software $\times 1$
- \odot User manual $\times 1$

3. Features

- © USB to 4-port RS-232 converters
- © Single chip(ASIC) USB port to serial port communication
- © Support Windows98/ME and Windows2000/XP,Windows Server 2003/2008, Windows

7/Vista

- © Support Linux, Mac
- © Support powered from USB or 5VDC external power input
- © No IRQ, I/O Address
- © Support USB2.0, baud rate can reach up to 12Mbps
- © 15KV ESD protection

4. Specifications

USB

Compliance: USB1.1/2.0 compliant USB signal: VCC, DATA+, DATA-, GND, FG Speed: 480Mbps (high-speed), 12Mbps (full-speed) Connector for External Antenna: USB type B female **RS-232** Standards: EIA RS-232C Number of Ports: 4 Connectors: DB9 male RS-232 signal: TXD, RXD, RTS, CTS, DTR, DSR, DCD, RI, GND Working mode: Asynchronous, point to point Baud rate: 300~115.2Kbps Parity: None, Even, Odd, Space, Mark Data bits: 7, 8 Stop bits: 1, 2 Flow control: RTS/CTS, XON/XOFF Interface protection: 1500W surge protection, 15KV ESD protection FIFO: 128bytes **Driver Support** Operating System: Support Windows98/ME and Windows2000/XP,Windows Server 2003/2008. Windows 7/Vista Power Power input: 5VDC power input Consumption: 300mA Environment Operating temperature: -10 $^{\circ}$ C to 60 $^{\circ}$ C Storage temperature: -40 $^{\circ}$ C to 85 $^{\circ}$ C Humidity: 5% to 95% (no condensation) Appearance Dimensions: 160.0mm×94.0mm×28.0mm Material: Iron(shell) Color: White Weight: 500g Warranty: 5 years Approvals: FCC, CE, RoHS approvals

5. Panel Layout

5.1 Front Panel



USB: USB connector

RX1, TX1, RX2, TX2, RX3, TX3, RX4, TX4: COM1 $\sim\!4$ port receive and send indicator

PWR: power indicator

5.2 Front Panel



COM1~4: RS-232 port **Power input jack:** 5VDC power supply



6. Dimension

7. Driver Installation

7.1 Installing the Driver for the Converter(first time use the MWU104)

The operating system will automatically detect the USB232. when you plug it into one of your computer's USB ports. If you have installed the latest MWU104 driver, the MWU104's serial port will be installed automatically. If the MWU104 and the serial ports are not installed automatically, follow the instructions below.

I. After connecting the USB cable from the MWU104 to the host PC, Windows XP will automatically detect the new MWU104, and the Found New Hardware balloon will open in the bottom right corner of the Windows desktop.

Product information prompting: USB to RS232



II. Driver installation guide. Select Yes, this time only. Click Next to start the installation.



III. Select the installation path.

Hardware Update Wizard					
Please choose your search and installation options.					
	Browse For Folder				
 Search for the best driver in Use the check boxes below paths and removable media 	Select the folder that contains drivers for your hardware.				
Search removable m Search removable m G:\project\USBIIIII Don't search. I will choose Choose this option to selec the driver you choose will b					
	To view any subfolders, click a plus sign above.				

IV. Program loading.



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V. Loader success, indicates that Windows has completed the driver installation. Click Finish to proceed with the rest of the installation procedure.



VI. Found virtual port, select the installation path again.

Hardware Update Wizard						
Please choose your search and installation options.						
	Browse For Folder					
 Search for the best driver in Use the check boxes below paths and removable media 	Select the folder that contains drivers for your hardware.					
 Search removable m Include this location G:\project\USBIIIIIT Don't search. I will choose Choose this option to selec the driver you choose will b 	CDM 2.06.00 WHQL Certified(II win7)					
	OK Cancel					

VII. Repeat 3 times install the driver for the port, It created 4 virtual serial port in the PC. The **Found New Hardware** balloon will reappear to inform you that the hardware was installed successfully. You can see them in Device Manager as follows(COM4~COM7):





7.2 Configuring serial port properties

After the driver has been installed, use Windows' **Device Manager** to configure the MWU104 serial ports. (click **Start** \rightarrow **Settings** \rightarrow **Control Panel** \rightarrow **System**, select the **Hardware** tab, and then click **Device Manager**.)

Right click the serial port, select properties, you can see the information of serial port properties in General, Port Setting, Driver, Details (generally, configuring is not necessarily, cause MWU104 can automatically detect data).

📕 Device Manager	USB Serial Port (COM4) Properties	2 🔀
File Action View Help ← → 💷 😭 🎒 🕄 🗷	General Port Settings Driver Details	
SONE-5463EC812A Gomputer Disk drives Disk drik Disk drives Disk drik Disk drives Disk drives	Bits per second: 9600 Data bits: 8 Parity: None Stop bits: 1 Flow controt: None Advanced Restore	V V Defaults
	ОК	Cancel

Select Advanced settings for COM, you can redistribute the port.(If you click the Restore Defaults, all the settings will return to Factory default settings)

🚇 Device Manager	USB Serial Port (COM4) Pro	operties	2 🛛	
File Action View Help	Advanced Settings for COM	1 4		? 🛛
← → ■ ■ ■ ● ● ■ ● ■ ● Omputer Omputer Omputer Omputer Omputer Other ATA/ATAPI controllers Keyboards Mice and other pointing devices Other devices	COM Port Number: USB Transfer Sizes Select lower settings to corre Select higher settings for fas Receive (Bytes): Transmit (Bytes):	COM4 COM5 (in use) COM6 (in use) COM7 (in use) COM8 COM9 COM10 COM10 COM11 COM12 COM13 COM13 COM14 COM15	d rates.	OK Cancel Defaults
USB Serial Port (COM6) USB Serial Port (COM7) Processors	BM Options Select lower settings to corre	COM16 COM17 COM18 COM19	Miscellaneous Options Serial Enumerator	
Sound, video and game controlle System devices Gystem devices Gystem devices	Latency Timer (msec):	COM20 COM21 COM22 COM23	Serial Printer Cancel If Power Off	
	Timeouts Minimum Read Timeout (mse Minimum Write Timeout (mse	COM24 COM25 COM25 COM26 COM27 COM28 COM29	Event On Surprise Removal Set RTS On Close Disable Modem Ctrl At Startup	
		COM30 COM31 COM32		

NOTE:

In use: the port is used.

After change serial port properties, must select scan the hardware again or reinsert USB cable, otherwise, the port is not displayed.