

USB4232 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. USB4232 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

USB4232 product is shipped with the following items:

- \odot USB4232 \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°C to 60°C Storage temperature: -40°C to 85°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: $\rm COM1 \sim 4~port~receive~and~send$ 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 USB4232)

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 USB4232 driver, the USB4232's serial port will be installed automatically. If the USB4232 and the serial ports are not installed automatically, follow the instructions below.

I. After connecting the USB cable from the USB4232 to the host PC, Windows XP will automatically detect the new USB4232, 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.

	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\USBIINIT Don't search. I will choose Choose this option to select 	 CDM 2.06.00 WHQL Certified(□□win7) CDM 2.06.00 WHQL Certified amd64 386 New Folder New Folder(2) uc2485□□
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.

B Device Manager	
File Action View Help	
Communications Port (COM1)	~
Hardware Update Wizard	
Completing the Hardware Update Wizard The wizard has finished installing the software for: USB Serial Converter A	
Click Finish to close the wizard.	~
K Back Finish Cancel	

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

	Browse For Folder
 Search for the best driver Use the check boxes belo paths and removable medi 	Select the folder that contains drivers for your hardware
Search removable n Include this location G:\project\USB	CDM 2.06.00 WHQL Certified(□□win7) G CDM 2.06.00 WHQL Certified G and64 C and64 C as86
Don't search. I will choose Choose this option to selec the driver you choose will	New Folder(2) Cuc2485

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 USB4232 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 USB4232 can automatically detect data).

📕 Device Manager	USB Serial Port (COM4) Properties		
File Action View Help ← →	General Port Settings Driver Details		
30NE-5463EC812A Gomputer Disk drives Disk drives Disk drives Disk drives Disk drives Disk drives Other devices Other devices Other devices Journal Serial Port (COM5) JUSB Serial Port (COM5) JUSB Serial Port (COM5) JUSB Serial Port (COM5) JUSB Serial Port (COM7) Sound, video and game controlle System devices Universal Serial Bus controllers	Bits per second: Data bits: Parity: Stop bits: Flow control: Ad	9600 V 8 V None V 1 V None V vanced Restore Defaults	

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	14		? 🛛
- 📕 30NE-5463EC812A	COM Port Number:	COM4 😽		ок
 	USB Transfer Sizes	COM4 A COM5 (in use)		Cancel
	Select lower settings to corre	COM6 (in use) COM7 (in use) COM8	d rates.	Defaults
 Mice and other pointing devices 	Select higher settings for fas	COM9 COM10		
Ports (COM & LPT) Scommunications Port (COM1)	Receive (Bytes):	COM11 COM12		
USB Serial Port (COM4)	Transmit (Bytes):	COM13 COM14 COM15		
USB Serial Port (COM6)	BM Options	COM15 COM16 COM17	Miscellaneous Options	
Processors	Select lower settings to corre	COM18 COM19	Serial Enumerator	
E Sound, video and game controlle	Latency Timer (msec):	COM20 COM21	Serial Printer	
⊞ 🥰 Universal Serial Bus controllers		COM22 COM23	Cancel If Power Off	
	Timeouts	COM24 COM25	Event On Surprise Removal	
	Minimum Read Timeout (mse	COM26 COM27	Set RTS On Close	
	Minimum Write Timeout (mse	COM28 COM29 COM20	Disable Modem Ctrl At Startup	
		COM30 COM31		

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.