



4-Port RS-232 USB to Serial Adapter Data Control Box

Product Manual



Coolgear, Inc.

Version 1.1

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Model Number: USB-4COM

Revision History

Revision	Date	Author	Comments
1.1	04/05/2018	Coolgear	New Manual

About this document

This product manual outlines installation and features of the USB-4COM 4-Port RS-232 USB to Serial Adapter Data Control Box.

Scope

The scope of this manual is to give the user of the product an understanding of its use with detailed diagrams and verbiage. The manual allows the users to apply the product to their application.

Intended Audience

This product is intended for use in numerous industries including but not limited to applications such as; Modem use, ISDN TAs, PDAs, handheld & pocket PC's, digital cameras, POS, serial printers, and others.

Product Support

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1. Introduction

The USB-4COM adds 4 RS-232 serial ports via an available USB port, the serial adapter control box uses FTDI and is automatically detected and installed with full RS-232 modem control signals and hardware/software flow control. The 4-Port RS-232 USB to Serial Adapter provides instant connectivity with modems, ISDN TAs, PDAs, handheld & pocket PC's, digital cameras, POS, serial printers. It is suitable for remote access, retail and industrial applications, data collection and other applications requiring high speed RS-232 serial communication ports.

WEIGHT	.468 lbs
DIMENSIONS	5.43(L) x 5.12(W) x 1.56in(H)
CABLE LENGTH	3ft.
UPC	729440690700
WARRANTY	1 year from date of purchase
COLOR	Silver
PORTS	4 DB-9 Male Serial Ports

1.1 Features

- | | |
|--|---|
| <ul style="list-style-type: none"> • TAA Compliant • Adds four high speed RS-232 serial port via USB connection. • Rugged plastic housing with built-in LED status indicators for TxD and RxD. • Installed as standard Windows COM port. • Full RS-232 modem control signals and hardware/software flow control. • RS-232 data signals: TxD, RxD, RTS, CTS, DSR, DTR, DCD, RI, GND. • High speed serial port with the baud rate up to 921.6K bps. | <ul style="list-style-type: none"> • Non-standard baud rates supported. • Serial port protected with surge protection of 10KV. • Powered by USB port, no external power adapter required. • Easy plug-and-play installation and RS-232 device connection. • COM port number assigned can be changed to any COM port number required. • Works with USB 1.1 & 2.0 host port. • Supports Windows 8, Windows 7, Vista, 2003, XP, 2000 and Linux. |
|--|---|

Note: If your USB to Serial Adapter is provided with external power adapter, you need to plug the power adapter to the power source after driver installation. The USB-4COM is powered by host USB ports. They must work in USB self-power mode that supplies power of 5V / 500mA.

2. Windows 7 / Vista / 2003 / XP / 2000 Driver Installation

You need to have administrator privileges to install any new drivers under Windows 7/ Vista / 2003 / XP / 2000. To install the driver or update the configuration please log onto Windows as "Administrator" or ask your system administrator to install the USB-COM driver.

You need to install driver first, prior to hardware installation. Do not connect the USB-to-Serial Adapter to the USB port of your computer, before you finish driver installation.

Please proceed with the following steps to install the driver:

1. Insert the "USB COM Series Driver and Utility" CD into your CD-ROM.
2. The "USB COM Series Driver and Utility CD" dialog box appears.
3. Under "Driver Installation", double click "Windows 7, Vista, 2003, XP, 2000 driver" to install the device driver.
4. The USB COM install program will auto-detect the OS type and install the driver automatically. (Note: in Windows 7 or Vista OS you will find another dialog box, please click on "OK" to confirm the drivers install program).

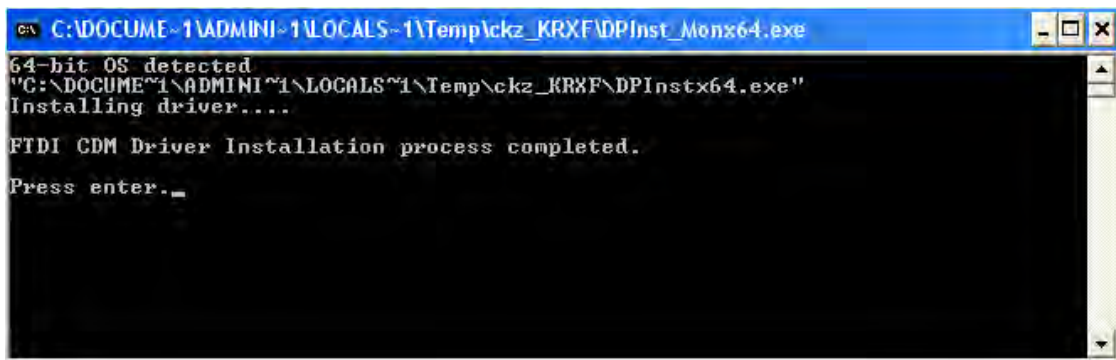


Figure 1

5. After the message "FTDI CDM Driver installation process completed" appears, press "Enter" to complete the driver installation.
6. Plug in the USB to Serial Adapter to the USB port of your computer. Windows will finish installing the driver files.

3. Check Installation

You can now verify the installation has been completed successfully by looking under Device Manager of the System Properties screen. (Go there by Start-Setting- Control Panel-System Properties-Hardware-Device Manager.

The device should have installed as a "USB Serial Port (COMx)" attached to "USB Serial Converter A/B".

3.1 Change COM Port Properties & COM Port Number

This feature is particularly useful for programs, such as HyperTerminal, which only work with COM1 through COM4. Please ensure that you do not change the COM Port Number already in use.

To change the virtual COM port properties:

- Select the "USB Serial Port"
- Click "Properties".
- Select "Port Setting" and "Advanced".
- Click the drop down arrow on COM Port Number and scroll to the required COM port. Select "OK".
- Return to the Device Manager Screen. You will see that the USB Serial Port installation has been changed to the new COM Port Number.

3.2 Uninstalling Windows 2003 / XP / 2000 Drivers

Please proceed with the following steps to uninstall the 2003/XP/2000 driver:

1. Insert the "USB COM Series Driver and Utility" CD into your CD-ROM.
2. The "USB COM Series Driver and Utility CD" dialog box appears.
3. Under "Driver Uninstalling", double click "Windows 2003, XP, 2000 driver uninstall" to uninstall the device driver.
4. When following dialog box appears, double click "Clean System" to uninstall the 2003/XP/2000 drivers.



Figure 2

5. You need to disconnect all USB-COM from your PC, when the message below appears. Double click “OK” to start uninstalling Windows 2003/XP/2000 USB to Serial drivers.



Figure 3

6. Double click “Yes” to confirm it.

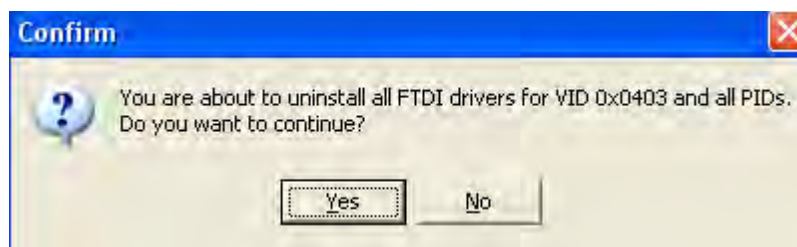


Figure 4

7. Click “No” to proceed.

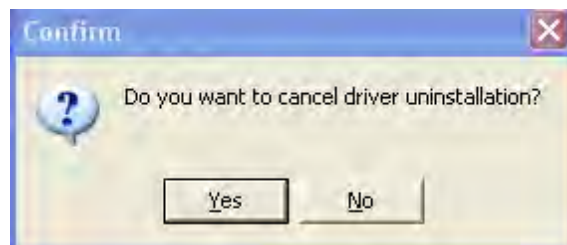


Figure 5

- When the message “**Status: System clean completed**” appears, double click “Exit” to complete the USB to serial drivers uninstall.



Figure 6

- Press “**Start**” button and select “**Control Panel**”.
- Open the Add or Remove program.

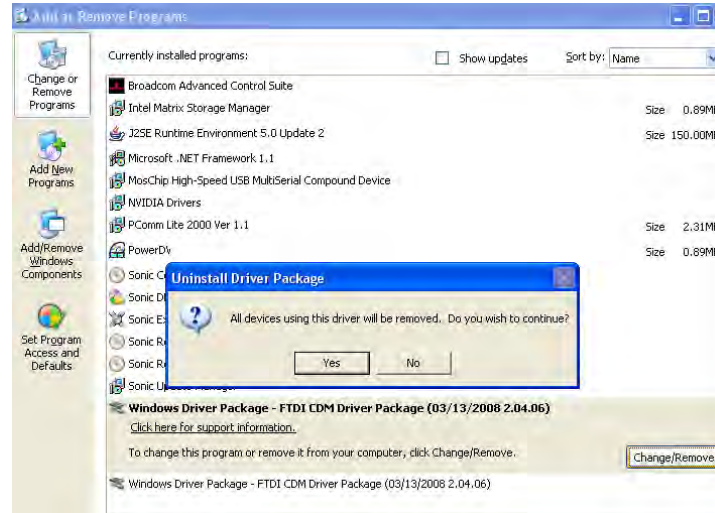


Figure 7

- Remove the first “Windows Driver Package – FTDI CDM Driver Package (...)”.
- Click “Change/Remove” and “Yes” to remove the first Windows Driver Package.
- Remove the second “Windows Driver Package – FTDI CDM Driver Package (...)”.
- Click “Change/Remove” and “Yes” to remove the second Windows Driver Package.
- Reboot the computer to complete the driver uninstall.

4. Uninstalling Windows 7 or Vista Drivers

Windows 7 and Vista have many new security features. You need to proceed with the following steps to uninstall the Vista driver:

1. The USB to serial devices must connect to the PC.
2. Press “Start” button and select “Control Panel”.
3. Select “Classic View” from the top left hand corner and then “System” from the list.
4. Select “Device Manager” from the top left hand corner.

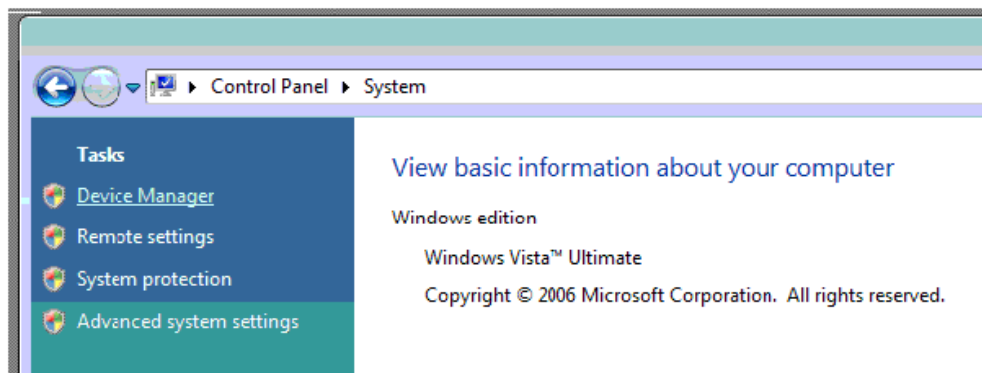


Figure 8

5. Locate your device under the ports (COM & LPT) section and right click on it to bring up the menu shown.

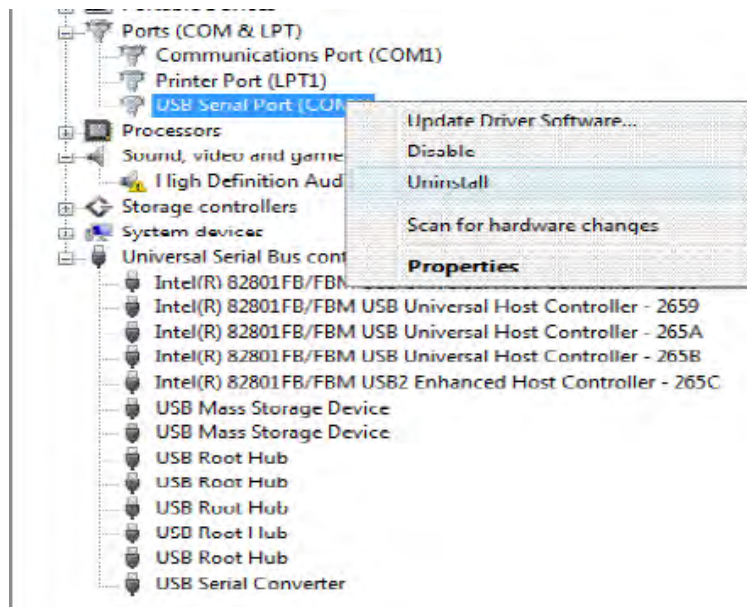


Figure 9

6. Select uninstall and be sure to click the box for “Delete the driver software for this device” in the next window and press “OK”.

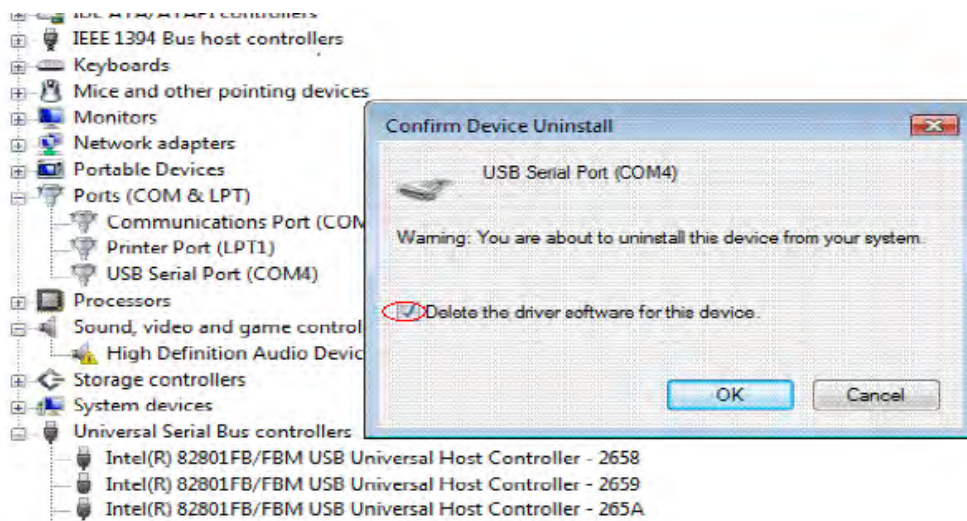


Figure 10

Note: if you have more than one USB-COM installed in your PC, you need to repeat from step 5 to step 6 to delete the driver software for each port.

7. Locate your Device under the Universal Serial Bus Controllers section, and right click on it to bring up the menu shown.

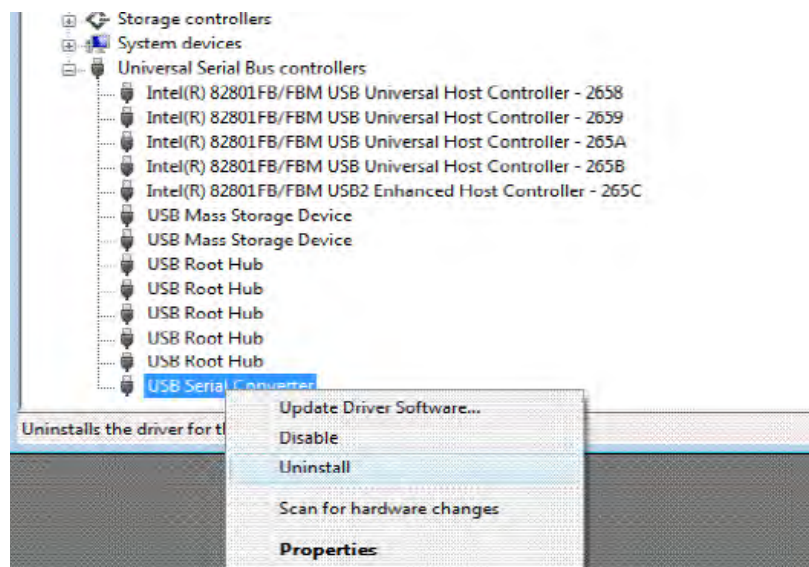


Figure 11

8. Select uninstall and be sure to click the box for “Delete the driver software for this device” in the next window and press “OK”.

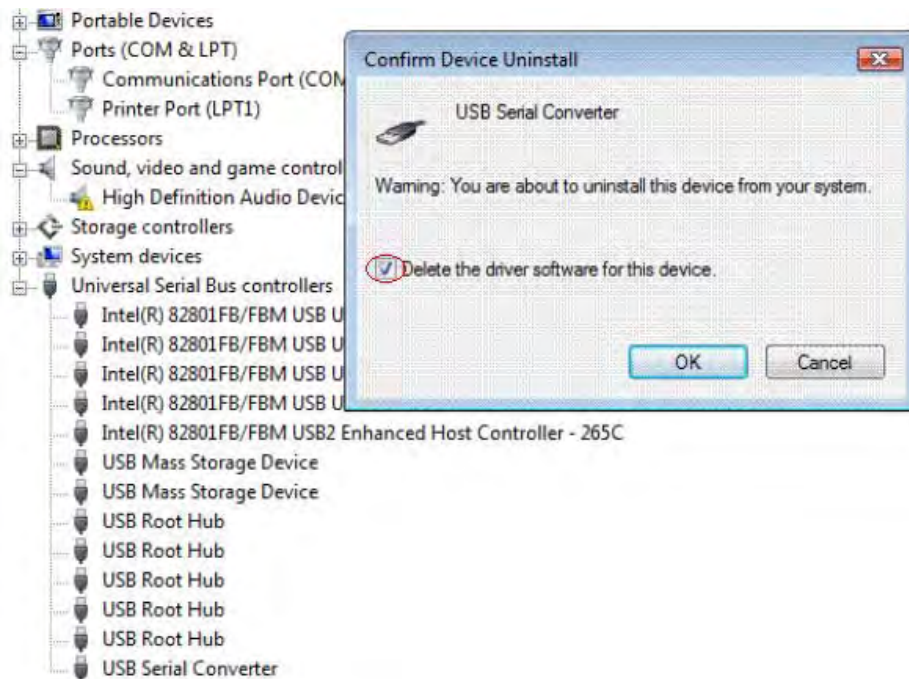


Figure 12

Note: if you have more than one USB Serial Converter installed in your PC, you need to repeat step 7 and step 8 to delete the driver software for all devices.

5. DB-9 Male Connector Pin-out

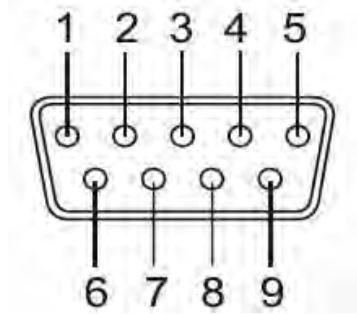


Figure 13

Pin 1	DCD
Pin 2	RxD
Pin 3	TxD
Pin 4	DTR
Pin 5	GND
Pin 6	DSR
Pin 7	RTS
Pin 8	CTS
Pin 9	RI

6. Notes, Tips, and Warnings

Note

Note: If your USB to Serial Adapter is provided with external power adapter, you need to plug the power adapter to the power source after driver installation. The USB-4COM is powered by host USB ports. They must work in USB self-power mode that supplies power of 5V / 500mA.

Reference section 1.

Note: if you have more than one USB Serial Converter installed in your PC, you need to repeat step 7 and step 8 to delete the driver software for all devices.

Reference section 4 step 8

Tip

N/A

Warning

N/A

Safety

- Read the entire Product Manual before implementing this product for your application. This manual contains important information about electrical connections that must be followed for safe and proper operation.
- Inspect the product closely for visual defects before putting it to use.
- Keep away from areas where moisture builds, this product contains electrical components that can be damaged by moisture build up, this can adversely affect your equipment connected to it.
- Do not disassemble the product. Handling the product's internal components can expose it to ESD (Electro-Static Discharge) hazards that can affect the function of the device.
- If this product is not functioning properly, email our support team at support@coolgear.com.

7. Supporting References

Document	Link
Website Product Page	https://www.coolgear.com/product/4-port-rs-232-usb-serial-adapter-data-control-box

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