

# Industrial 8-Port RS-232 USB 2.0 Serial Adapter Box with FTDI



**Product Manual** 

Coolgear, Inc. Version 1.1 March 2018 Model Number: USB2-8COM-M

www.coolgear.com



**Revision History** 

Revision	Date	Author	Comments
1.1	03/21/2018	Coolgear	New Manual

### About this document

This product manual outlines installation and features of the USB2-8COM-M Industrial 8-Port RS-232 USB 2.0 Serial Adapter Box with FTDI.

#### 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; connectivity with modems, ISDN TAs, PDAs, handheld & pocket PCs, digital cameras, POS, serial printers, remote access and other RS-232 Serial communications.

### **Product Support**

support@coolgear.com



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# 1. Introduction

The USB2-8COM-M USB Serial Adapter Box is designed to make serial port expansion quick and simple. The USB2-8COM-M USB Serial Adapter provides instant connectivity to RS-232 communication device for factory automation equipment, multi-drop data collection devices, barcode readers, time clocks, scales, data entry terminal and serial communication in harsh environment. The USB to Serial Adapter is suitable for remote access, retail and industrial application, data collection and other applications requiring high speed RS-232 communication ports.

WEIGHT	.881 lbs
DIMENSIONS	4.80(L)x5.11(W)x.984in(H)
CABLE LENGTH	3ft.
UPC	729440690793
WARRANTY	1 year from date of purchase
COLOR	Black
PORTS	(8) DB-9 Male Serial Port / (1) USB Type-B Female Port

# 1.1 Features

•	TAA Compliant Installed as 8 standard Windows COM ports. SECC metal chassis with DIN rail bracket. 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 128 byte transmit FIFO & 384 byte	<ul> <li>Non-standard baud rates supported.</li> <li>LEDs of Power, TxD and RxD for easy port monitoring and diagnostics.</li> <li>Serial port protected with surge protection of 10KV.</li> <li>Powered by DC jack +9 -48V. 12V DC, 1A power adapter included.</li> <li>Easy plug-and-play installation and RS-232 device connection.</li> <li>COM port number assigned can be changed to any COM port number required.</li> </ul>
	receive FIFO.	<ul> <li>Compatible with USB 1.1 &amp; 2.0 host port.</li> </ul>

**Note:** The USB2-8COM-M is powered by host USB ports. It must work in USB self-power mode with a power supply 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.

**Note:** 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 or A/B/C/D)".

### 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.

🧗 FTDI Clean Utility	V1.0	
(	FTD Chip	I
VID (Hex) FTDI PID (Hex)		Clean System
Status: Ready		

Figure 2

5. You need to disconnect all USB to Serial Adapters 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



8. When the message "Status: System clean completed" appears, double click "Exit" to complete the USB to serial drivers uninstall.

FTDI Clean Utilit	y V1.0	
	FTD Chip	I
VID (Hex) FTDI		Clean System
PID (Hex)	-	Exit
Windows Server 2003 Status: System	n clean complete	ed

Figure 6

9. Press "Start" button and select "Control Panel".10. Open the Add or Remove program.

1	Currently installed programs:		Show updates	Sort by:	Name	~
Change or Remove Programs	Broadcom Advanced Control Suite				Size	O COMP
	🖕 125E Runtime Environment 5.0 Update 2				Size	150.00MB
Add New Programs	Berger Microsoft .NET Framework 1.1     Berger MosChip High-Speed USB MultiSerial Compound Device					
6	PComm Lite 2000 Ver 1.1				Size	2.31MB
Add/Remove <u>Windows</u>	PowerDV				Size	0.89MB
	Coning Commistral (Driver Package     Sonic D)     All devices using this driver will be rem	oved. (	Da you wish to conti	nue?		
Set Program Access and Defaults	Sonic R	0	1			
	B Sonic U	e (03/	13/2008 2.04.05			
	Click here for support information.	lick Cha	nga/Remove			
	Windows Driver Backage - ETDI CDM Driver Backage (02/12	Jonne -	2 04 06)		Chang	e/Remove

Figure 7

- 11. Remove the first "Windows Driver Package FTDI CDM Driver Package (...)".
- **12.** Click "Change/Remove" and "Yes" to remove the first Windows Driver Package.
- 13. Remove the second "Windows Driver Package FTDI CDM Driver Package (...)".
- **14.** Click "Change/Remove" and "Yes" to remove the second Windows Driver Package.
- **15.** 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.





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 Serial Port (COMx) 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.

Storage control	ers	
🕀 🚺 System devices		
🚊 🏺 Universal Serial	Bus controllers	
🚽 Intel(R) 8280	1FB/FBM USB Universal Host Controller	- 2658
Intel(R) 8280	1FB/FBM USB Universal Host Controller	- 2659
Intel(R) 8280	1FB/FBM USB Universal Host Controller	- 265A
Intel(R) 8280	1FB/FBM USB Universal Host Controller	- 265B
Intel(R) 8280	1FB/FBM USB2 Enhanced Host Controll	er - 265C
USB Mass St	orage Device	20.000.00
USB Mass St	orage Device	
USB Boot H	ub .	
USB Root H	ub.	
USB Root H	ub.	
E USB Root H	ub	
USB Root H	ub	
IIISB Serial C	onvetter	
Coopering and	Update Driver Software	
Uninstalls the driver for t	Disable	
	Disable	
	Uninstall	
	Scan for hardware changes	
	Properties	

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".



**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. RS-232 Signal Pin-outs of DB-9 Male



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

	<b>Note:</b> The USB2-8COM-M is powered by host USB ports. It must work in USB self-power mode with a power supply of 5V / 500mA. Reference Section 1.
Note	<b>Note:</b> 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. Reference Section 2.
	<b>Note</b> : 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.

Тір	N/A

<ul> <li>your application. This manual contains important information as electrical connections that must be followed for safe and proper operation.</li> <li>Inspect the product closely for visual defects before putting it to electrical components where moisture builds, this product contae electrical components that can be damaged by moisture build up can adversely affect your equipment connected to it.</li> <li>Do not disassemble the product. Handling the product's internal components can expose it to ESD (Electro-Static Discharge) haza that can affect the function of the device.</li> <li>If this product is not functioning properly, email our support tea support@coolgear.com.</li> </ul>	out use. ins o, this rds m at
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# 7. Supporting References

Document	Link
Website Product Page	https://www.coolgear.com/product/usb-2-0-serial-adapter- box-industrial-8-port-rs-232-ftdi-chip-high-speed-921-6kbps

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