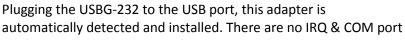


# USBG-232 12 inch USB to RS-232 FTDI Serial Adapter DB-9 Male User Manual

The USBG-232 USB Serial Adapter with FTDI is designed to make serial port expansion quick and simple. Connecting to a USB port on your computer or USB hub, the USB Serial Adapter instantly adds serial communication port to your system. By taking advantage of the USB bus, the USB Serial Adapter makes it easier than ever to add serial port and serial device to your system with easy plug-and-play and hot plug features. Adapting the new technology, the serial port expansion now takes the new bus with easy and convenient connectivity.





USBG-232

conflicts, since the port doesn't require any additional IRQ, DMA, memory as resources on the system. The RS-422/485 port functions as native Windows COM port, and it is compatible with Windows serial communication applications.

The 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.

### **Specifications and Features**

- Adds one RS-232 serial port by connecting to a USB port.
- Compact size cable type converter with cable length of 12 inches.
- 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
- Non-standard baud rates supported
- LED status indicators for TxD and RxD for easy port monitoring and diagnostic
- 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

# 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).

C:\DOCUME~1\ADMINI~1\LOCALS~1\Temp\ckz_KRXF\DPInst_Monx64.exe	- 🗆 🗙
64-bit OS detected "C:\DOCUME~1\ADMINI~1\LOCALS~1\Temp\ckz_KRXF\DPInstx64.exe" Installing driver	
FTDI CDM Driver Installation process completed.	
Press enter	
	-

- 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.

### **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)".

#### **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:

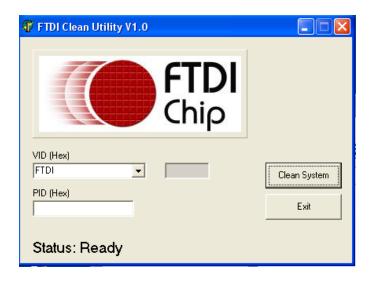
- Select the "USB Serial Port"
- Click "Properties".
- Select "Port Setting" and "Advanced".
- Click the drop down arrow on COM Port Number and scroll to the required COM port. Select "OK".
- Return to the Device Manager Screen. You will see that the USB Serial Port installation has been changed to the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

### Uninstalling Windows 2003/XP/2000 Drivers



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

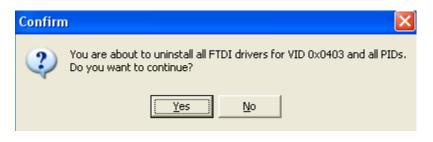
- **1.** Insert the "USB COM Series Driver and Utility" CD into your CD-ROM.
- 2. The "USB COM Series Driver and Utility CD" dialog box appears.
- **3.** Under "Driver uninstalling", double click "Windows 2003, XP, 2000 driver uninstall" to uninstall the device driver.
- 4. When following dialog box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



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.

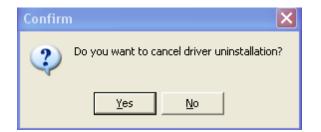


6. Double click "Yes" to confirm it.



7. Click "No" to proceed.





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

🗊 FTDI Clean Utility V1.0	
<b>FTDI</b> Chip	
VID (Hex)	Clean System
PID (Hex)	Exit
Windows Server 2003 Status: System clean completed	

9. Press "Start" button and select "Control Panel".

**10.** Open the Add or Remove program.



🐻 Add or Re	move Programs			
5	Currently installed programs: Show updates Sort t	by: Name	*	
C <u>h</u> ange or Remove Programs	IIII Broadcom Advanced Control Suite 弱 Intel Matrix Storage Manager	Size	0.89MB	
Add <u>N</u> ew Programs	J2SE Runtime Environment 5.0 Update 2 Size 150.00MB Microsoft .NET Framework 1.1 MosChip High-Speed USB MultiSerial Compound Device			
C Add/Remove	f랑 NVIDIA Drivers f랑 PComm Lite 2000 Ver 1.1 슈 PowerDv	Size	2.31MB	
Windows Components	Sonic C Uninstall Driver Package	Size	0.89MB	
Set Pr <u>o</u> gram Access and Defaults	Sonic R Sonic R Sonic U			
	Windows Driver Package - FTDI CDM Driver Package (03/13/2008 2.04.06) Click here for support information. To change this program or remove it from your computer, click Change/Remove.	Change	/Remove	
	Windows Driver Package - FTDI CDM Driver Package (03/13/2008 2.04.06)	<u></u>		

- 11. Remove the first "Windows Driver Package FTDI CDM Driver Package (...)".
- 12. Click "Chang/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.

# Uninstalling Windows 7 or Vista Drivers

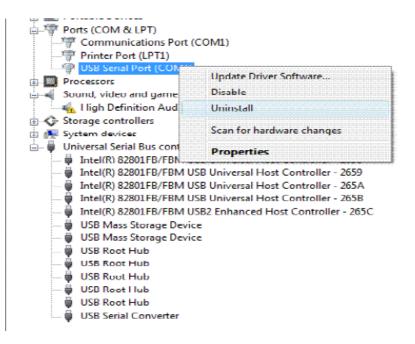
Windows 7 and Vista have many new security features. You need to proceed with the following steps to uninstall the Vista driver:

- 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.



Control Panel 🔸 System		
Tasks     Device Manager     Remote settings     System protection     Advanced system settings	View basic information about your computer Windows edition Windows Vista™ Ultimate Copyright © 2006 Microsoft Corporation. All rights reserved.	

5. Locate your Device under the Ports (COM & LTP) section and right click on it to bring up the menu shown.



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".



👾 📲 IDE ATR/ATAFI CONTONEIS		
📺 👹 IEEE 1394 Bus host controllers		
in Keyboards		
Mice and other pointing devices		
Monitors	Confirm Device Uninstall	
🔅 💇 Network adapters		
Portable Devices	USB Serial Port (COM4)	
Ports (COM & LPT)	Sector de la companya	
- The Communications Port (CON		
Printer Port (LPT1)	Warning: You are about to uninstall this device from your system.	
USB Serial Port (COM4)		
Processors	Delete the driver software for this device.	
Sound, video and game control	C Delete the driver soltware for this device.	
Storage controllers		
🚊 👰 System devices	OK	
🚊 🏺 Universal Serial Bus controllers		
↓ Intel(R) 82801FB/FBM USB Universal Host Controller - 2658		
Intel(R) 82801FB/FBM USB Universal Host Controller - 2659		
— 👼 Intel(R) 82801FB/FBM USB Universal Host Controller - 265A		

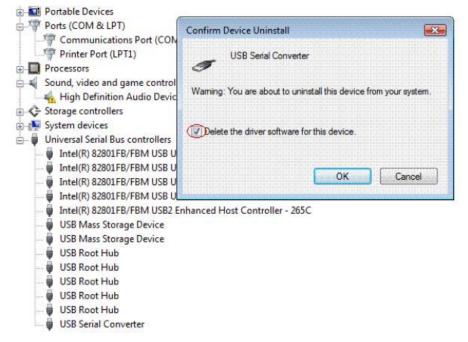
**Note:** if you have more than one USB Serial Port (COMx) installed in your PC, you need to repeat from step 5 to step 6 to delete the driver software for each port.

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

🚊 🕼 Storage controllers					
🛓 🌉 System devices					
🚊 🏺 Universal Serial Bus controllers					
🏺 Intel(R) 828	Intel(R) 82801FB/FBM USB Universal Host Controller - 2658				
🛱 Intel(R) 828					
🏺 Intel(R) 828	Intel(R) 82801FB/FBM USB Universal Host Controller - 265A				
🏺 Intel(R) 828	Intel(R) 82801FB/FBM USB Universal Host Controller - 265B				
🖗 Intel(R) 828					
🟺 USB Mass S	USB Mass Storage Device				
USB Mass S	USB Mass Storage Device				
🏺 USB Root H	🗤 🏺 USB Root Hub				
🔲 🏺 USB Root H	🏺 USB Root Hub				
🟺 USB Root H	USB Root Hub				
🏺 USB Root H	🟺 USB Root Hub				
USB Root Hub					
🛄 🟺 USB Serial (					
	Update Driver Software				
Uninstalls the driver for t	Disable				
	Uninstall				
	Scan for hardware changes				
	Properties				

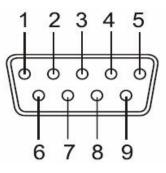
8. Select uninstall and be sure to click the box for "Delete the driver software for this device" in the next window and press "OK".





**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.

# 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