

USB to 1-port RS-232 & 1-port Printer Adapter (ComHub)

12.02.1017

User Manual

Introduction

This product can transform your Universal Serial Bus (USB) port into a RS-232 serial port & a printer port for serial and parallel devices. This adapter is compatible with both USB 2.0 and 1.1 specifications and provides a serial port with transfer speed up to 115.2Kbps. It provides a quick, simple and cost-effective way to bring the advantages of data accessibility and mobile solution for kinds of commercial and industrial automation applications.

Features

- Expands RS-232 serial and Parallel LPT ports through USB interface
- Supports Universal Serial Bus Plug-n-Play and Hot-Swapping feature
- No IRQ, DMA, I/O address resource required
- Serial port provides transmission rate up to 115.2Kbps
- IEEE1284 Parallel (LPT) port supports SPP mode with transfer speed up to 2.7MB/sec.
- Supports USB 1.1 full speed 12Mbps, and it is also USB 2.0 and 3.1 compatible.
- Supports USB bus power supply
- Built-in ±15KV ESD protection for all serial signals.
- Plug-n-Play, I/O address and IRQ assigned by BIOS.
- Certified by CE, FCC, VCCI, BSMI, and RoHS.
- Support Microsoft Windows and Linux.

Package Checklist

Please check if the following items are present and in good condition upon opening package.

Contact your vendor if any item is damaged or missing.

- 1 port USB to RS-232 and Parallel Multi-I/O Hub, Cable 150 cm (5 ft)
- Driver CD

Pin Assignment

DB25F	PIN		DB25F	PIN
1	STROBE		14	AUTO FEED
2	DATA0		15	ERROR
3	DATA1		16	INT
4	DATA2		17	SELECT INPUT
5	DATA3		18	GND
6	DATA4		19	GND
7	DATA5		20	GND
8	DATA6		21	GND
9	DATA7		22	GND
10	ACKNOWLEDGE		23	GND
11	BUSY		24	GND
12	PAPER EMPTY		25	GND
13	SELECT		DB25F	PIN

Specification

Serial Communication

Interface	RS-232	Serial Port Controller	PL2303GC
Bus Interface	Universal Serial Bus (USB) 2.0 / 1.1	No. of Port	1-port
Signal	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND, RI	IRQ & IO	Assigned by System
Baud rate	50 bps to 115.2 Kbps	FIFO	16 byte (Hardware)
Parity	None, Even, Odd, Space, Mark	Data bit	5, 6, 7, 8
Flow Control	RTS/CTS (Hardware), XON/XOFF(Software)	Stop bit	1, 1.5, 2
Protection	±15KV ESD protection for each signal	Board connector	DB9 Male

Printer Communication

Interface	Printer port	Printer Port Controller	PL2305
Bus Interface	Universal Serial Bus (USB) 2.0 / 1.1	No. of Port	1-port
ESD Protection	±2KV ESD Protection	Cable Connectors	DB25 Female
Mode	SPP Mode (Support Printer only)		

Power

Input	USB Bus-power	Consumption	<1W = 5V x 200mA
-------	---------------	-------------	------------------

Driver Support

Microsoft Windows	7 / 8.x / 10 / 11 (X86/X64)	Linux	Linux 2.4.x or later
Microsoft Embedded	Windows Embedded CE, Windows CE	MAC	MAC OS X
Microsoft Server	2008R2 / 2012/2016(X64)		

Physical Characteristics

Dimension	75 (W) x 40 (D) x 22 (H) mm	Case	ABS
Cable Length	1500mm (5ft)	Weight	106g

Driver install

Please see back page for detail information.

USB Adapter Device Detection

Connect this adapter to the USB port of the PC. The first time you plug-in the cable into the USB port, Windows will start installing the device driver software. You can see the installation status at the pop-up message of system tray. After installation, the pop-up message says "Your devices are ready to use", Device driver software installed successfully.

USB adapter device detection can be confirmed by checking in the Device manager.

Check for "**USB printing Support**" and "**No Printer Attached**" under Universal Serial Bus controllers and you will find "**USB-to-Serial Port Driver (ComX)**" under the category Ports (COM & LPT). Here "X" in "ComX" represents the serial port number. You can see the same in the figure below.

Uninstalling Driver

After installing USB to Serial Adapter successfully, you can modify the setting for each port in Device Manager.

- (1) You can go to the Device Manager and right click your mouse on the COM port, and select Properties.
- (2) Please select "Driver".
- (3) Please select "Uninstall" in the Driver setting.
- (4) Select "Delete the driver software for this device" to finish the uninstallation.

Attentions

- (1) USB adapter's parallel port supports PRINTER only with running SPP mode, and it can NOT support other Parallel device, such as scanner, security dongle, and EEPROM burner.
- (2) USB adapter's Parallel LPT port does not have IO address, and it cannot remap to 278, 378, or 3BC legacy ISA address either.
- (3) USB adapter's Serial COM port does not have IO address, and it cannot remap to 2F8, 2E8, 3E8, or 3F8 legacy ISA address either.
- (4) Because of USB plug-n-play rule, user can not specify any IRQ or IO settings.
- (5) This adapter is compatible with USB 3.0, 2.0, and 1.1 port.

Setting Up the Printer Device

Follow the steps below on how to connect your printer to the USB port of your PC:

- (1) Turn off your printer. Plug the centronics connector of the USB-Parallel printer cable into your printer. If you have a parallel cable connected to it, remove the cable and replace it with the USB-Parallel printer cable.

- (2) Turn on the printer after wards.
- (3) Turn on your computer and plug in the USB connector of the USB-Parallel printer cable into the USB port.
- (4) If you have already installed a printer device before, click Start, Settings, Printers. Click right button of your mouse on the printer and click on **PORTS** to select the **USBx**.
- (5) If you don't have a printer installed yet, click on Start, Settings, Printers, Add Printer. The **Add Printer Wizard** will start and assist you in installing a new printer device. Select the printer manufacturer and model name from the list provided by the wizard or use the printer driver diskette supplied with your printer.
- (6) When prompted which port the printer will use, click on **USBx**.
- (7) Follow the succeeding instructions to complete the installation and also run **Print Test Page** to see if it can print without problems.

USB to RS-232 & Printer Adapter (ComHub)

Driver CD Installation Guide

Step.1 Please insert the CD into your CD-ROM.

Step.2 Please choose the suitable folder for your operation system:

Linux / Apple macOS / Microsoft Windows

Microsoft Windows10

8.x / 7 / Vista / XP / 2016 / 2012 / 2012R2 / 2008 / 2008R2

Please double click the .exe file below to launch the installation:

PL23XX-M_LogoDriver_Setup_v207_20211008.exe

Microsoft Windows11

Please double click the .exe file below to launch the installation:

PL23XX-M_LogoDriver_Setup_v300_20210907.exe

Apple macOS

Please execute the file below to launch the installation:

PL2303HxD&G_Mac Driver_v2.1.0_20210311.pkg

Linux

Since the Linux Association is still reviewing the new PL2303G Linux driver,

Please update the PL2303G Linux driver in the following way.

1. Please find the nearest Linux kernel version first.
2. make all // make a new driver.
3. sudo rmmod pl2303.ko // remove driver
4. sudo insmod pl2303.ko // add_1 a new driver
5. sudo cp pl2303.ko /lib/modules/\$(uname r)/kernel/drivers/usb/serial // add_2 a new driver