

Title: MNL-USB CONVERTER		Revision: B
Reference: USB CONVERTER INSTALLATION INSTRUCTIONS		
Written By: Phil Dilmore	Chentronics Corporation, Norwich NY, USA	Issue Date: 4/25/2016
Approved By:	DCO: 10775	Page 1 of 7



INSTALLATION INSTRUCTIONS

FOR USB CONVERTER KIT (P/N 07005113)

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Overview of the USB to RS-485 Converter Installation

This is a USB (Universal Serial Bus) port to 2 wire isolated RS-485 converter. The converter requires no PCI/ISA slots or IRQs. Simply plug the converter into an available USB port on your computer or hub. Windows will configure the converter as an additional COM port, compatible with your Windows applications. The USB bus supplies power so no separate supply is needed. This converter includes special circuitry that adds 2000 volts RMS of isolation against ground loop and voltage spikes. A pair of LEDs labeled TD and RD indicates when RS-485 data is being transmitted or received.

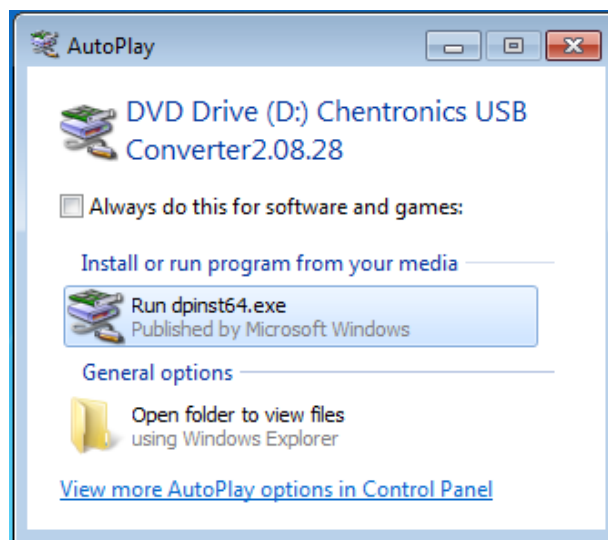
Step 1 – Insert the USB DRIVER DISC (part number 07005006) into the PC’s CD/DVD drive.

Step 2 – Connect the included USB cable from the USB Converter (part number 3425-057-01) to an unused USB port on the PC.

Step 3 – Install the Windows drivers on the PC.

Step 3.1.a – If the AutoPlay window opens automatically:

AutoPlay will prompt you to run the driver installer. For 32-bit Windows machines the driver is **dpinst32.exe** for 64-bit Windows machines the driver is **dpinst64.exe**. Double click on the appropriate driver.

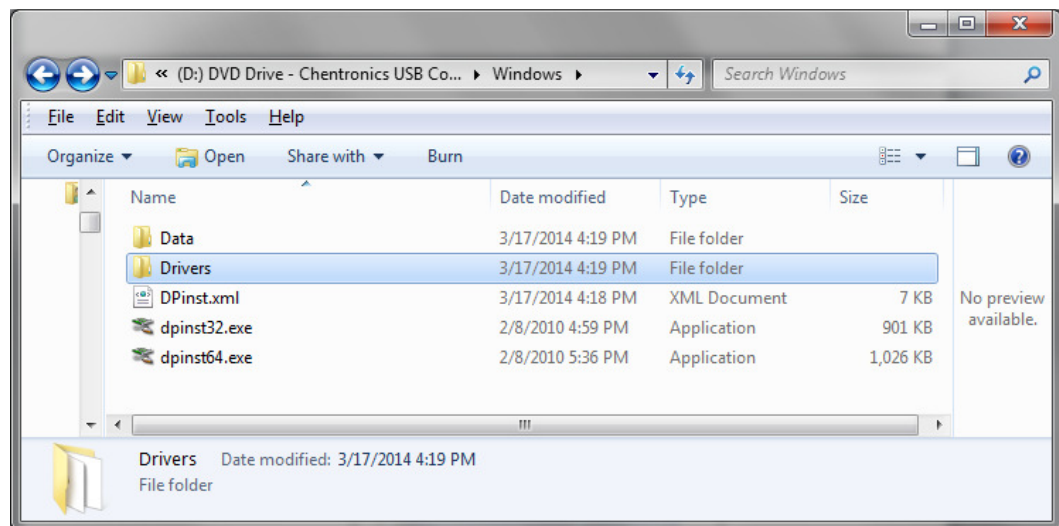


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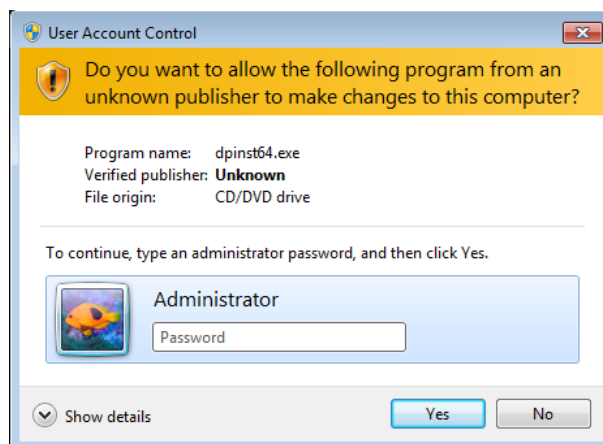
Step 3.1.b – If the AutoPlay window does not open automatically:

Open a Windows Explorer window and navigate to the directory shown below. Note that the CD/DVD drive on your PC may not be labeled as D:. Among other directories and files you will see both the 32-bit Windows machines driver, **dpinst32.exe**, and the 64-bit Windows machines driver, **dpinst64.exe**. Double click on the appropriate driver.



Step 3.2 – If you do NOT have administrator privileges:

Windows Access Control (UAC) will prompt you for an administrator password. Enter the administrator password and proceed to step 3.3.



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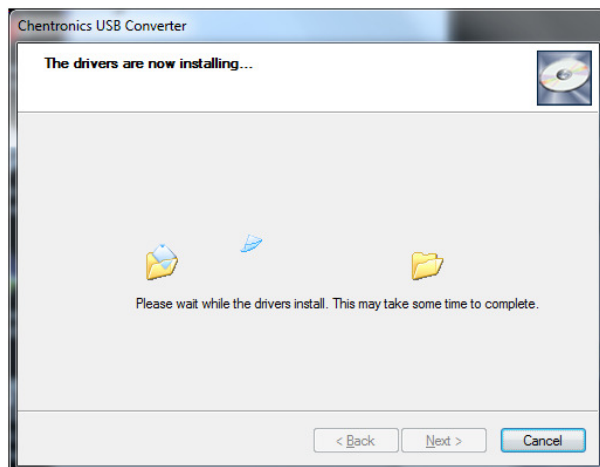
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Step 3.3 – The driver installer opens the following window:



Click the  button to continue.

If this window appears, it indicates drivers are loading properly.



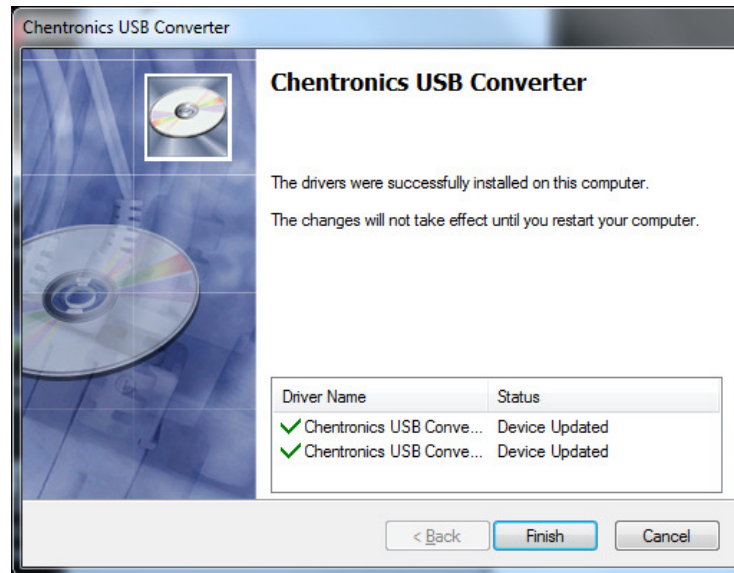
If this window appears, you will have to login as administrator before installing the drivers.



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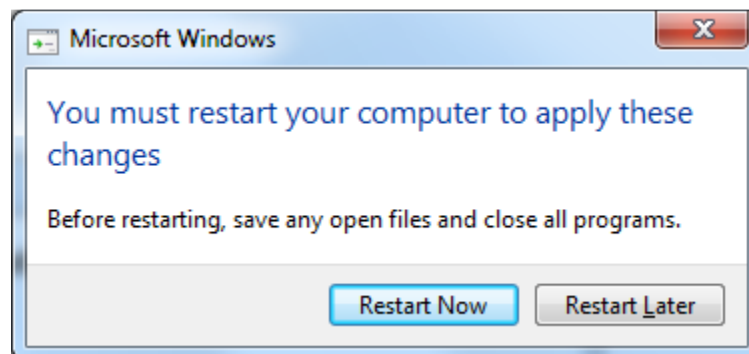
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Step 3.4 – When the following window appears, the driver installation is complete:



Click the  button to continue.

Step 3.5 – You will be prompted to restart:



Click the  button to restart your PC.

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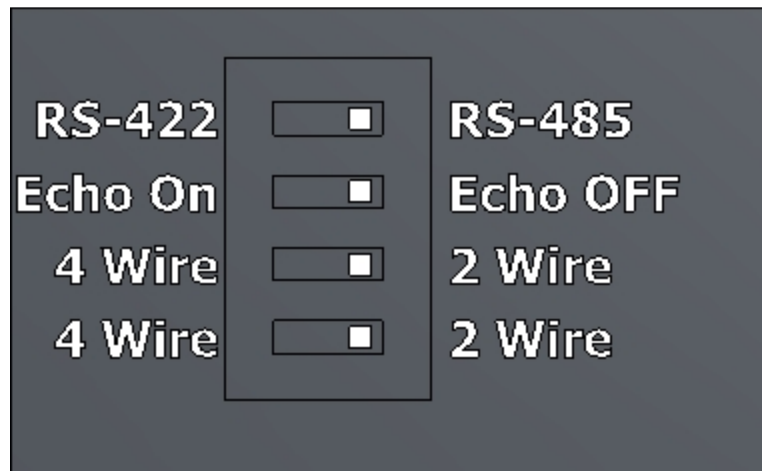
Step 4 – USB Converter DIP Switch settings:

On the back of the USB Converter is a four position DIP switch that determines the device’s operating mode. Ensure the switches are set as shown in the following table:

Switch Position Table

Switch	Position	Setting
1	On	RS-485
2	On	Echo Off
3	On	2 Wire
4	On	2 Wire

Reference Image



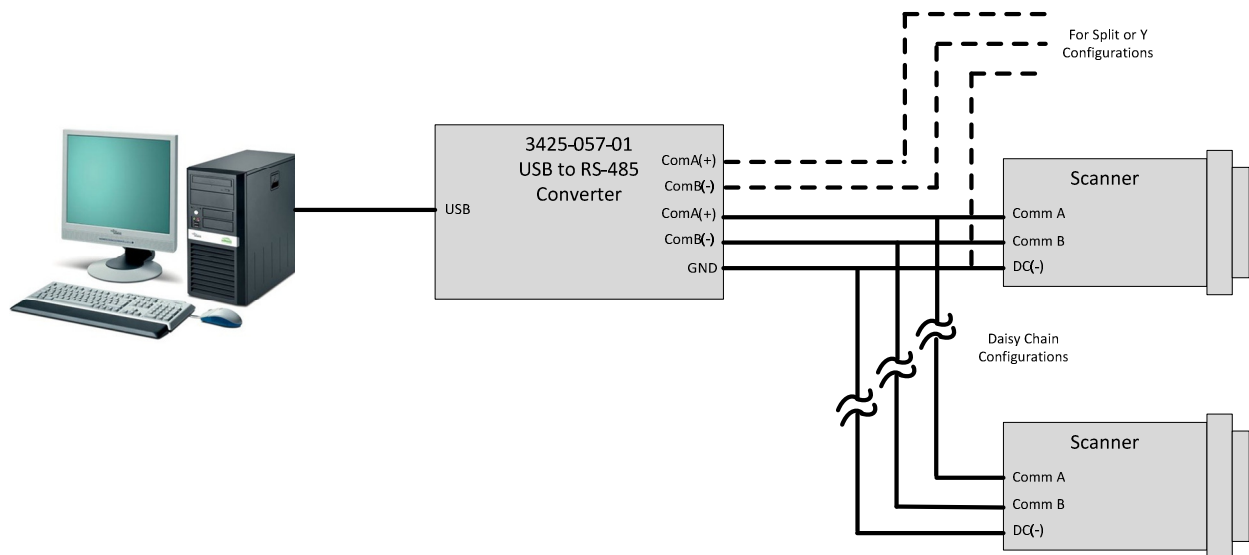
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Step 5 – Wiring connections are as follows:

- Scanner’s “Communication A” connects to USB Converter’s ComA(+).
- Scanner’s “Communication B” connects to USB Converter’s ComB(-).
- Scanner’s DC Return “DC(-)” connects to USB Converter’s GND.

Note: If the configuration is a Split or Y, the second set of ComA(+)/ComB(-) ports may be used since in this application’s defined mode the two ComA(+) ports are internally connected as are the two ComB(-) ports.



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