PLS Debugger Installation driver on SPC560X Discovery board

Abstract

This document describes how to install the driver on SPC560X Discovery Board

Keywords

Configuration Management, Driver, FTDI, PLS UDE, Windows, SPC5Studio

Contents

1 About this document

1.1 Purpose

This *Application Note (AN)* describes how to install the driver on the discovery board provided by ST.

These drivers should enable:

- ⇨ PLS Debugger by USB port. (flash and debug discovery board)
- ⇨ Virtual com port (Serial) by USB port.

1.2 Scope

This standard applies to all mass market users SPC5Studio development activities performed in ST.

1.3 Revision information

Table 1 Revision history

Date	Rev.	Signum	Comments
2013-07-15	1.0_D1	ST	First draft.
2015-05-13	1.1	ST	Approved version
2015-05-19	1.2	ST	Revised
2016-01-08	1.3	ST	Revised

1.4 Reference list

Table 2 Reference List

	Name	Link	Revision
[1]	FTDI Future Technology devices international	http://www.ftdichip.com	
[2]	SPC5Studio		
[3]	PLS UDE		

2 How to install the driver

2.1 Requirements

Hardware:

⇨ SPC560D Discovery board

⇨ USB Mini cable

Software:

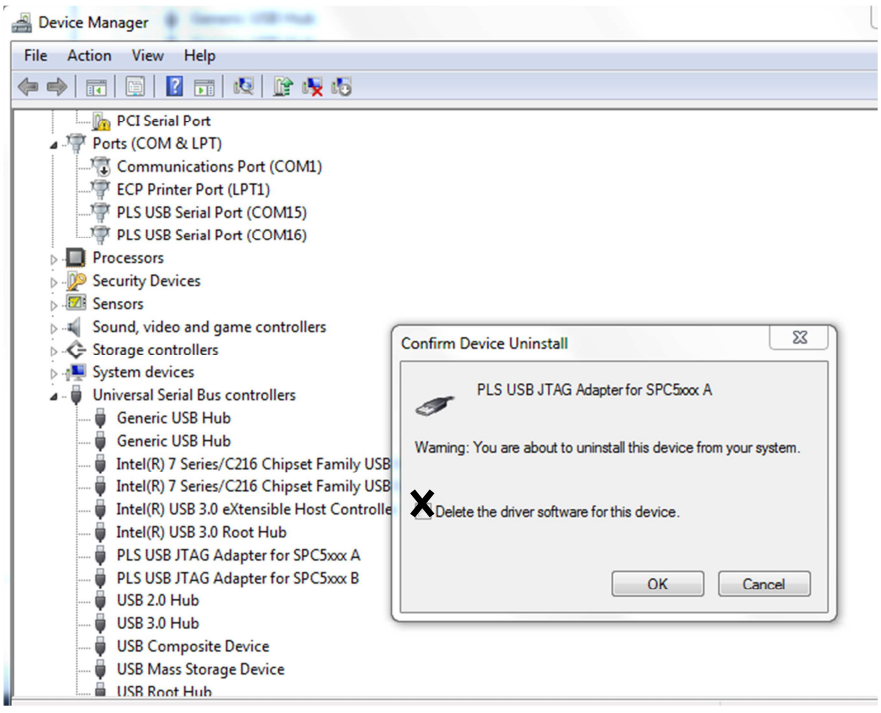
⇨ SPC5Studio

PLS UDE Software (to be downloaded from: http://www.pls-mc.com/spc5-udestk)

2.2 Uninstall the “old” PLS driver

⇨ Switch-on the discovery board and plug the USB MINI cable.

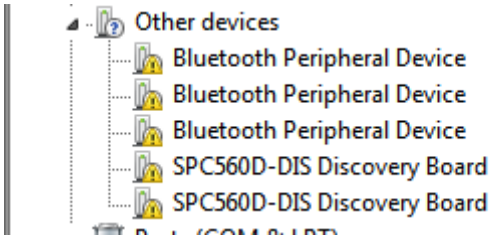
⇨ In ***Windows Device Manager***, uninstall the old driver relative to PLS



2.3 Install the PLS driver (DEBUGGER JTAG)

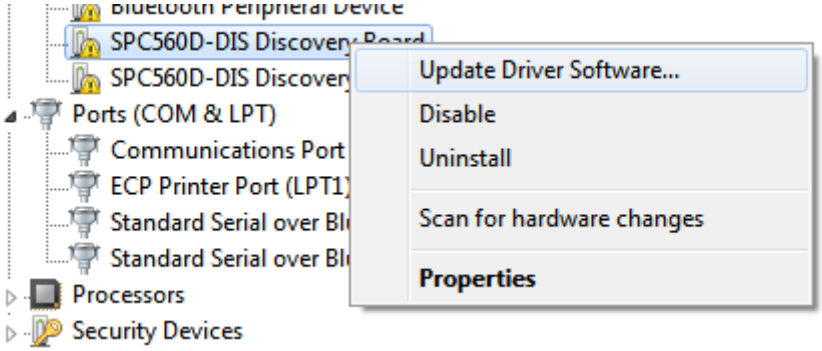
⇨ Switch-on the discovery board and plugged the USB MINI cable.

⇨ Check your ***device manager***



You should see 2 “unknown devices” SPC560D-DIS Discovery Board.

⇨ For each device, update the driver software manually



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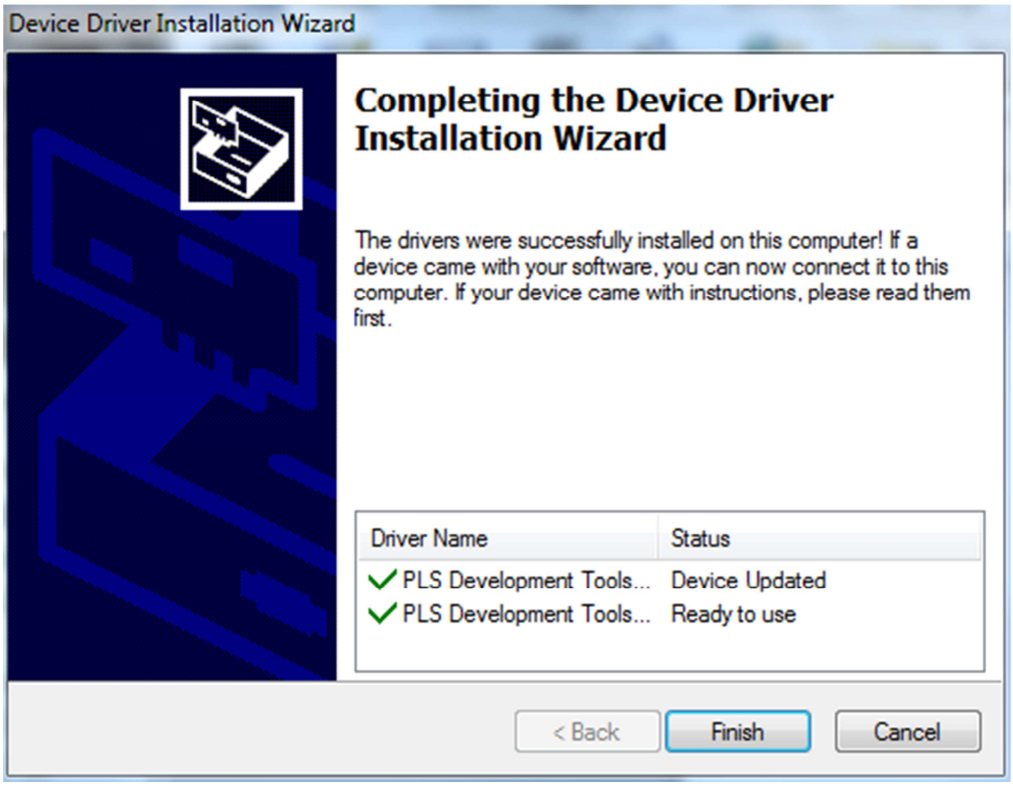
⇨ Install from the PLS driver directory

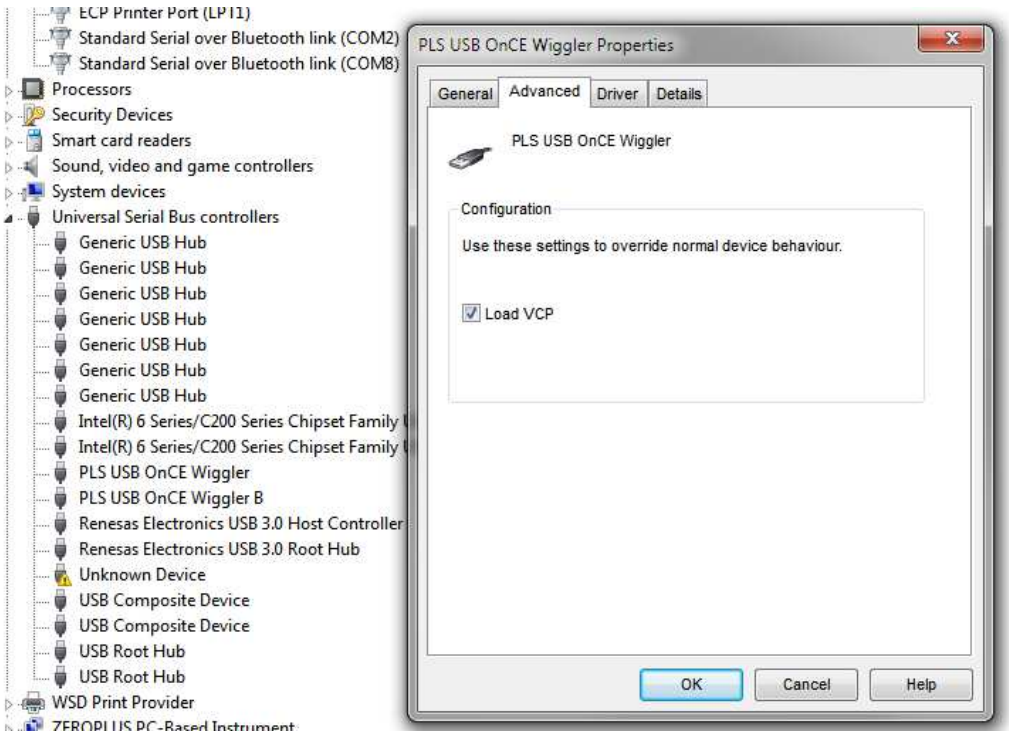
c:\Program Files (x86)\pls\UDE 4.2\Driver\JtagUsbDriver\Driver

Launch: InstallPlsUsbJtagDriver.bat

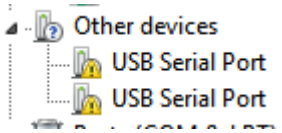


2.4 Install the PLS driver (USB SERIAL)

⇨ For each PLS USB OnCE Wiggler, update the properties and enable VCP (Virtual Com Port).



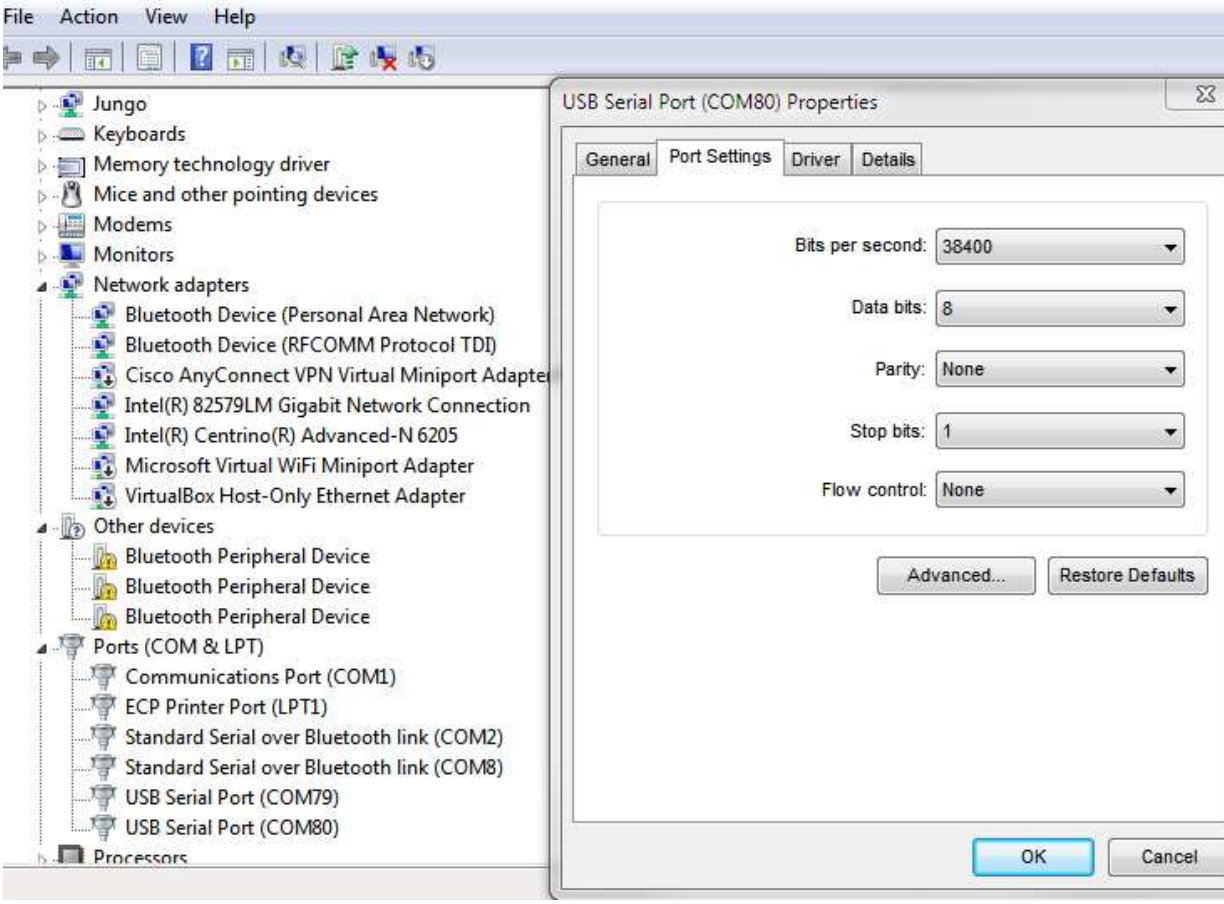
⇨ Unplug and plug your USB Mini cable, you should notice 2 USB serial port in your ***device manager***.



⇨ Download the driver from the following link:

http://spc5.drive.cloudforge.com/projects/spc5releases/Discovery_Board_FTDI_USB_Serial_driver/CDM%20v2.08.30%20WHQL%20Certified%20PLS%20DEBUG%20USB SERIAL%20Beta%20Version.zip

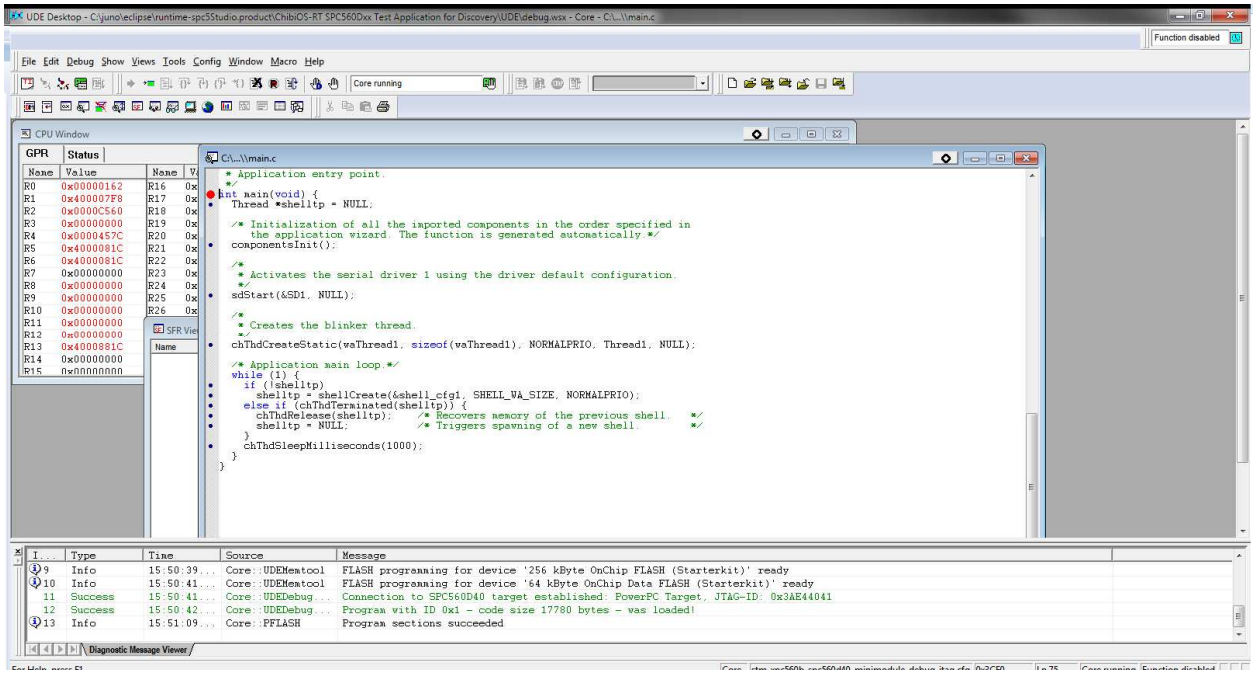
⇨ Unzip it and update the driver software manually for each USB Serial. ***COMXX*** and ***COMXX+1*** should display.



⇨ ***WARNING:*** Do not forget to update the UART Speed (38400 Bauds) in SPC5Studio test applications.

3 Test and Debug

3.1 Debug is OK



3.2 Serial port console is OK