

2.6 Running a Precompiled Application Example

This section gives a detail explanation on how to open, build and program an existing application example.

Prerequisites

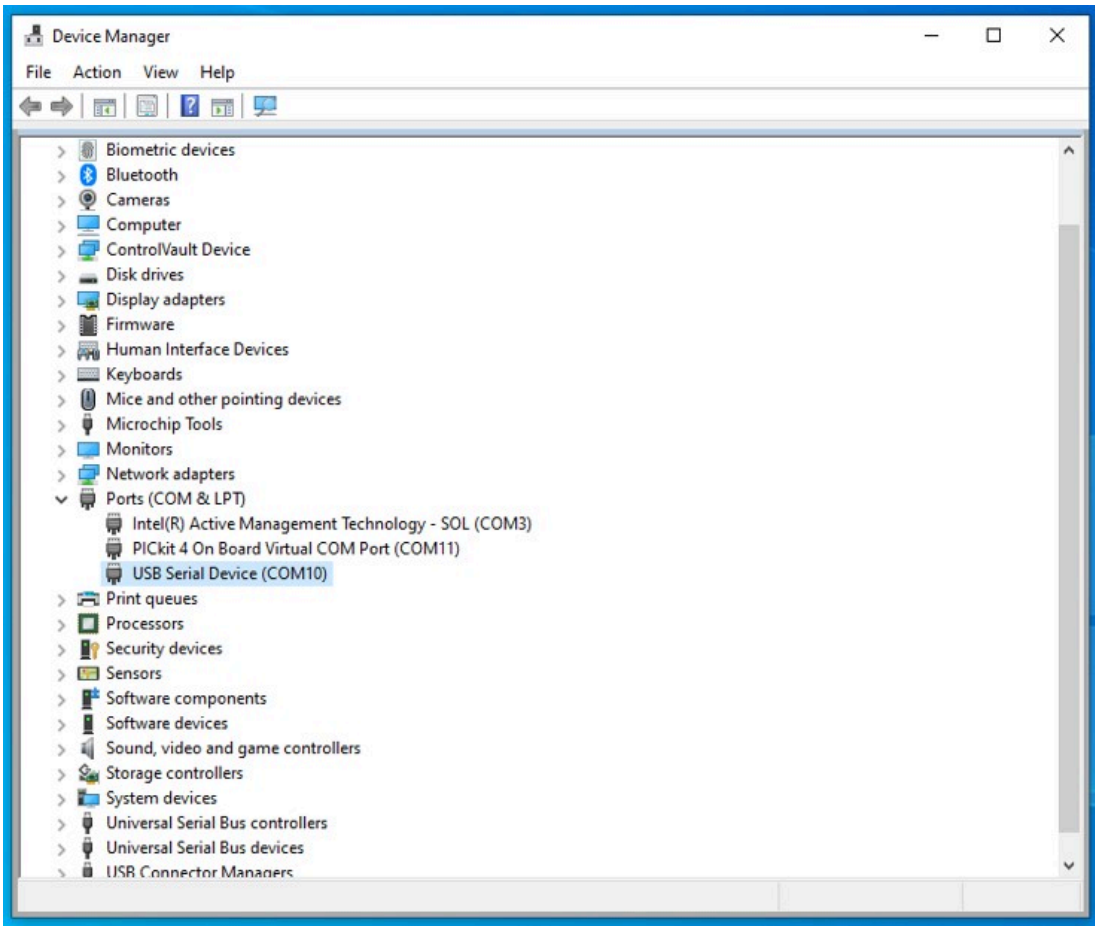
- 1. Install [MPLAB X IDE](#)
- 2. Install [XC32 Compiler](#)
- 3. Install [2.2 Installing Device Family Part Pack](#)
- 4. Install [MCC Plugin](#)
- 5. Install [2.4 Install Harmony 3 Dependencies](#)

COM Port Setup

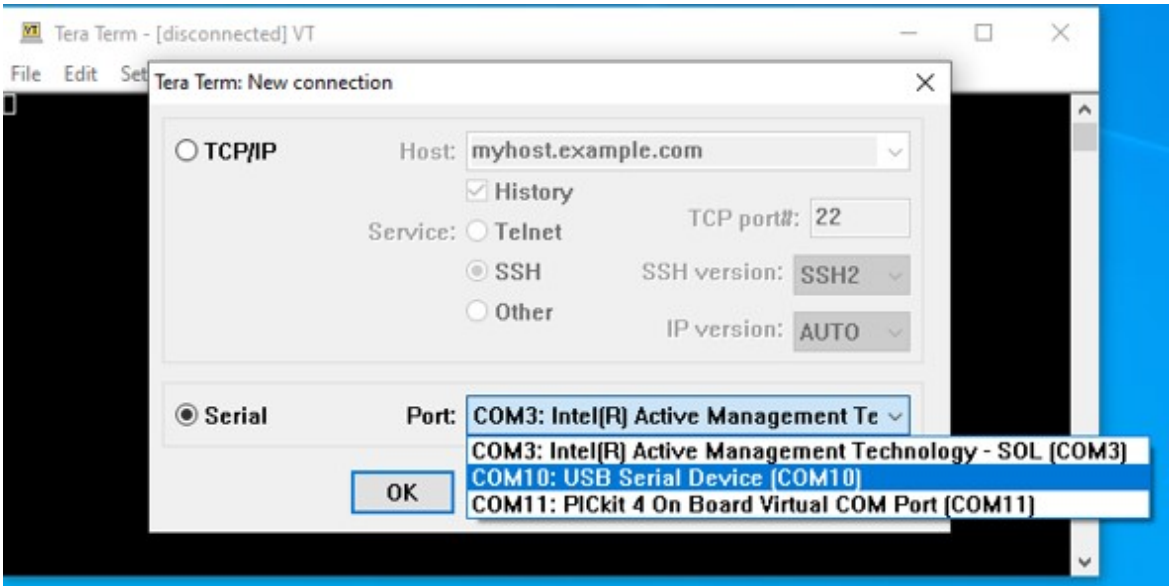
To resolve COM port issues that prevent the output of text to the Tera Term terminal using the WBZ451 curiosity board, follow these steps:

- 1. Close Tera Term and unplug the curiosity board from the computer.
- 2. Open Device Manager.

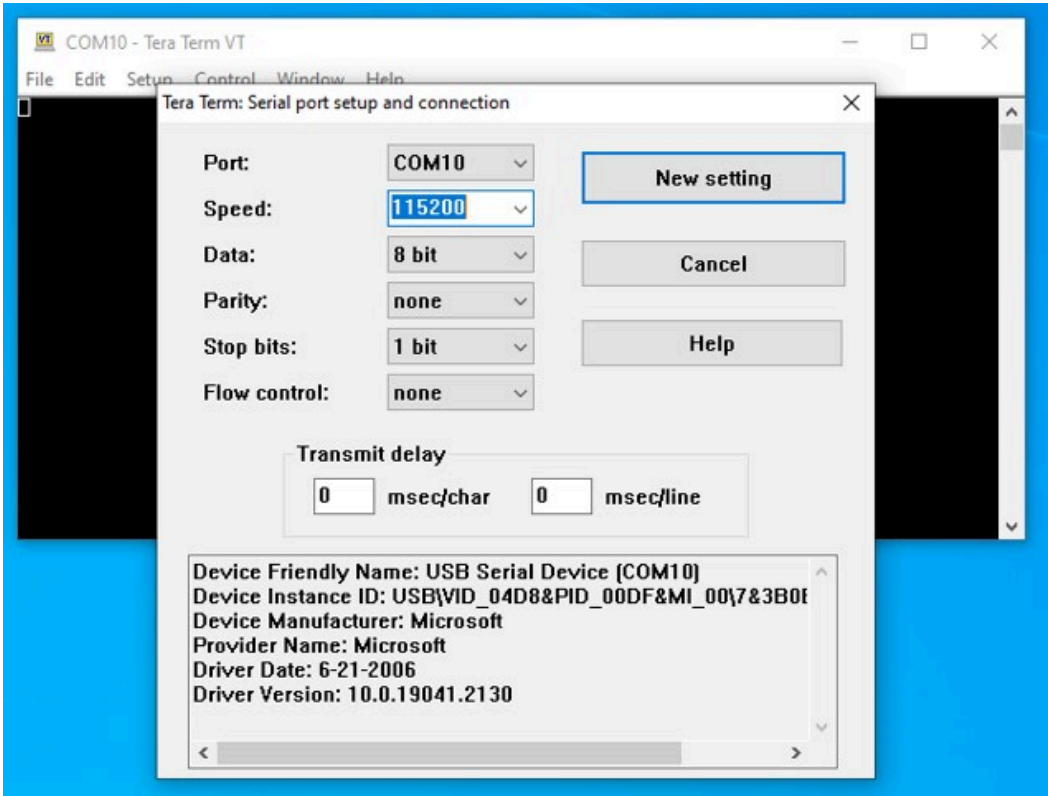
Figure 2-20. Device Manager



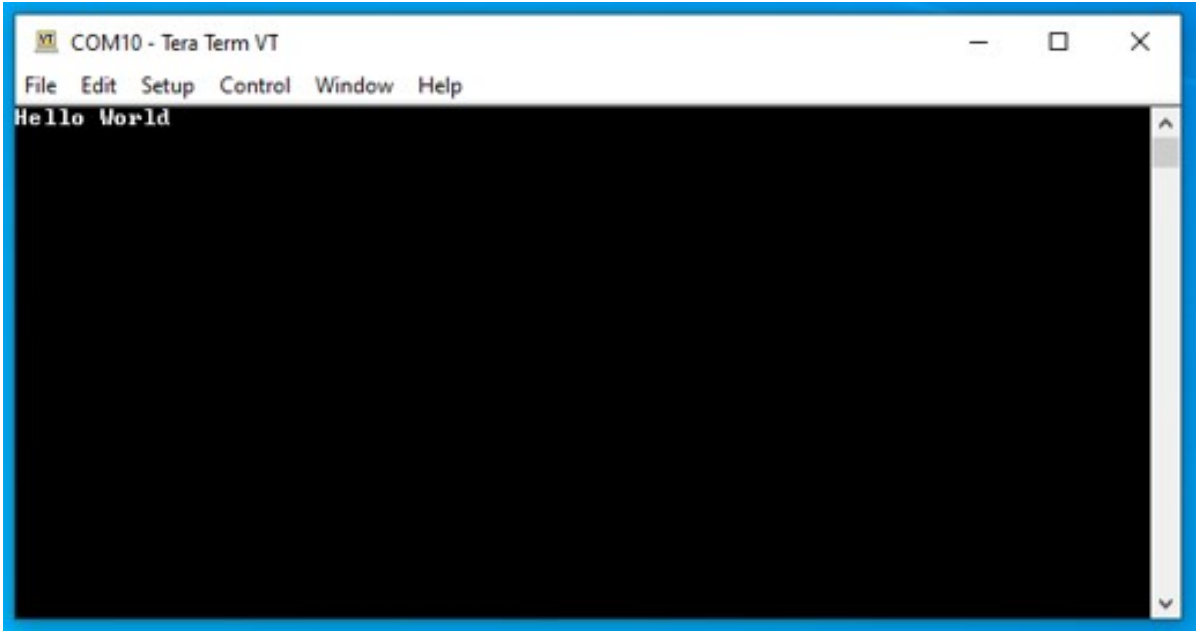
- 3. Plug the Curiosity board back into the computer.
- 4. In the Tera Term window, select “Serial”.
 - Select *USB Serial Device* from “Port”



- 5. In the **Setup** tab, change the value from 9600 to 115200 in “Speed”. Click **New setting** to apply the changes.



6. Press the reset button on the board to see text on the terminal if the curiosity board is programmed to do that.



Opening , Building and Programming an Existing Application Example

- 1. Connect Curiosity Board to the PC using USB cable
- 2. Open MPLAB X IDE
- 3. Select File > Open Project
- 4. Browse to project location of choice (In this example, it is "ble_sensor_app") project, select project file from the location "<Harmony Content Path>\wireless_apps_pic32cxbz2_wbz45\apps\ble\advanced applications\ble_sensor\firmware\ble_sensor.X"

ATTENTION

If multiple projects are open within IDE, IDE may not choose to build/program the "ble_sensor" project
Select the "ble_sensor" project, right click and select the setting "Set as Main Project""Information related to the workings of the application example are available in "PIC32CXBZ3 WBZ35 Application Developer's Guide" available in the ble_sensor"

"Information related to the workings of the application example are available in *PIC32CXBZ3 WBZ35 Application Developer's Guide*" available in the ble_sensor folder"

- 5. Open Project Properties:
 - Select WBZ451 Curiosity Board as hardware tool for programming
 - Ensure correct DFP v1.0.xx is selected as mentioned in the Tools and Harmony Components
- 6. Select XC32 compiler
- 7. Select option **Build Project** in IDE to compile the application example
- 8. Select option **Run Project** in IDE to program the target – the onboard debugger will program the example application

Note: A smartphone app might be needed to explore the full feature set of BLE Application examples.
The online versions of the documents are provided as a courtesy. Verify all content and data in the device's PDF documentation found on the device product page.