

## Flashing the TDI and TDI Extension

### I. Overview

The following will guide you through flashing the Tucor TDI and TDI Extension. Read this over first before trying. The sequence must be followed exactly and may take a few tries to do it within the allotted time. You'll have one minute from the time you power on the TDI to finish steps 3-6.

### II. Parts needed

- A Windows PC with a USB port
- A USB cable: A-Male to Mini-B (Fig 1)
- TDI firmware file
  - a. Hard-wired flow: TDI\_1.2b1.chx
  - b. SD-100 flow: Tucor\_x\_2.0b1.chx
- Tera Term Software (or other HyperTerminal software)



Figure 1

### III. Flashing the TDI

- A. If this is the first time connecting a TDI to your PC, drivers may need to install. If this is the case, connect the TDI to your PC with the USB cable (Fig 2) and apply power. The drivers should install automatically. After installed, determine the COM port number by opening Device Manager on your PC (Fig 3). This example uses COM5.

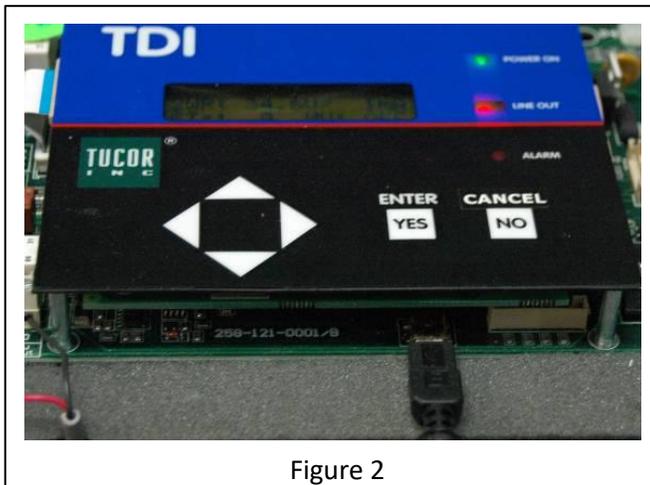


Figure 2

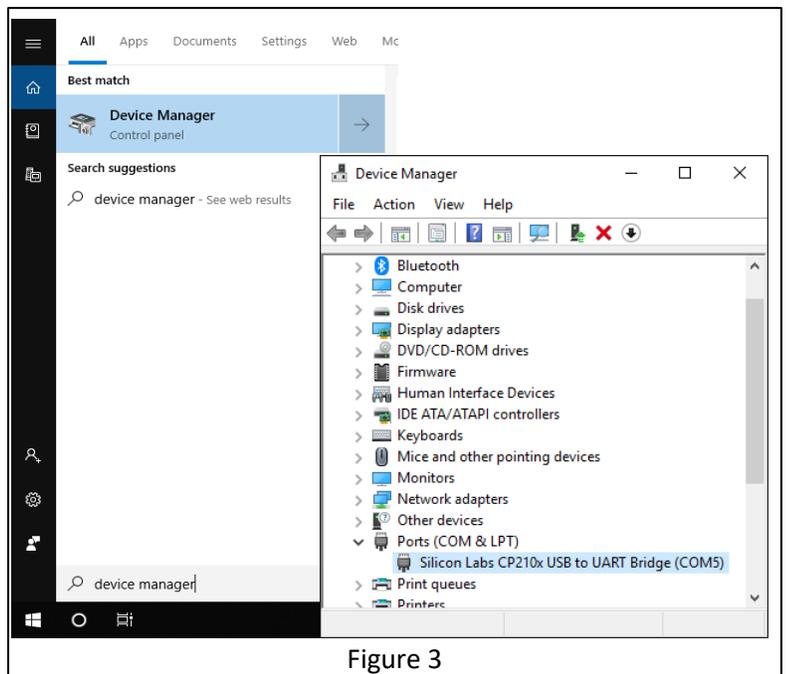


Figure 3

- B. Open the Tera Term software.
  - i. At the New Connection dialog, click **Cancel**.

Click **Setup**. (Fig 4)

- ii. Click on the **Port** drop box and choose the appropriate COM port (from Step A).
- iii. Set the following parameters:
  - a. **Baud Rate:** 115200
  - b. **Data:** 8 bit
  - c. **Parity:** none
  - d. **Stop:** 1 bit
  - e. **Flow control:** none
  - f. **Transmit delay:** 0 0
  - g. Click **OK**

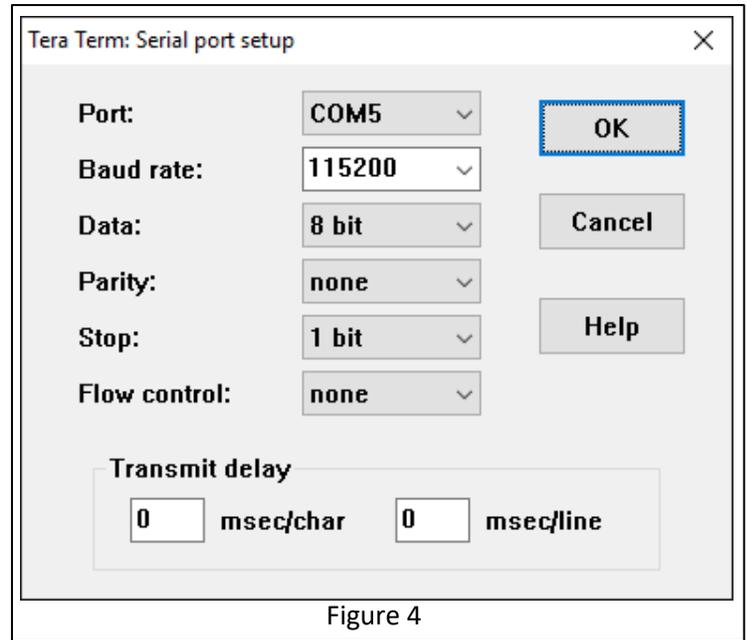


Figure 4

**Note:** The serial port setup configuration can be saved by clicking **Saved setup...** under the **Setup** tab.

- C. Power off the TDI. Press and hold the **Enter** button, apply power, and release. The **Power ON** and **Alarm** LEDs should flash alternately. The TDI is in program mode for the next 60 seconds. Step D must be completed during that time.

- D. Using the Tera Term software (Fig 5)

- i. Press **Enter** on your keyboard four or more times. You will see the Password prompt, type: **t098**.
- ii. The **Flash Menu** will appear with your options. To flash the TDI, type **1**.
- iii. **Flash new firmware?** will appear, type **y**.
- iv. **Load TDI.chx** file appears. Click **File** and **Send File...**
- v. An Explorer window will open. Locate the .chx file and click **Open**. (Fig 6)

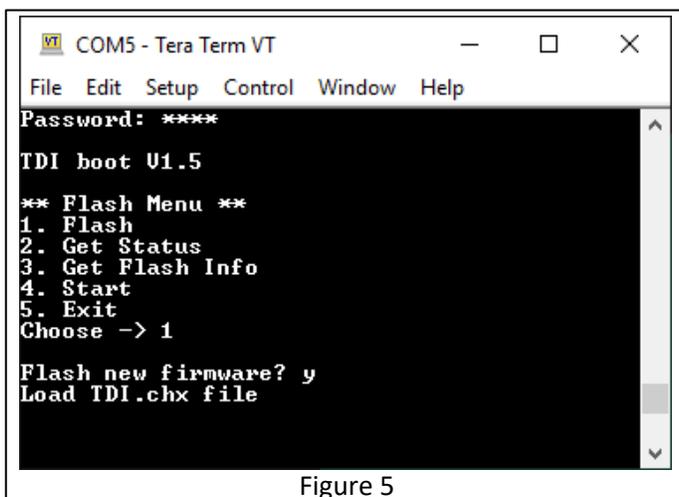


Figure 5

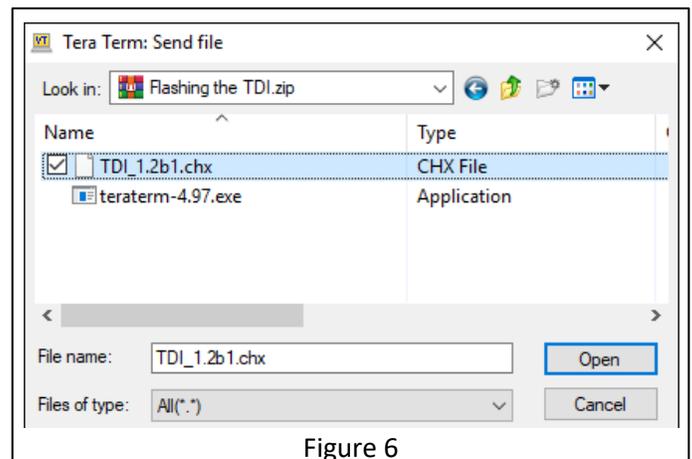


Figure 6

- vi. A new window will open to display the status of the upload. (Fig 7)
- vii. When flashing is complete, the software will verify it was uploaded correctly.
- viii. The **Flash Menu** will be displayed again, type **5** to exit (Fig 8). The TDI will reboot.

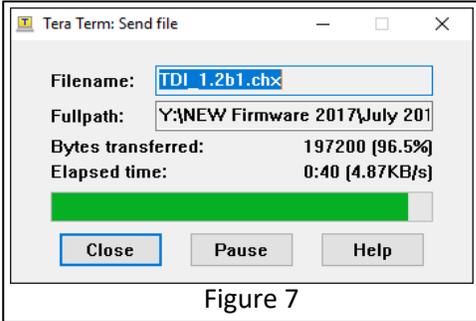


Figure 7

- E. Verify the firmware version from the TDI's LCD screen by pressing the **Left** button to view the **Main Menu**. Scroll down to **About** using the **Down** button and press **Enter**.

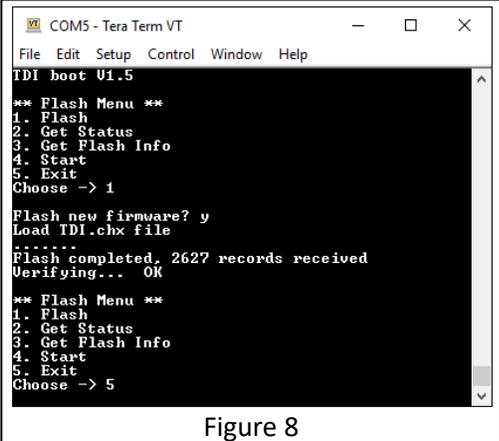


Figure 8

IV. Flashing the TDI Extension

Flashing the TDI Extension board is similar to flashing the main TDI board with one major exception: You use the TDI extension board, not the PC and hyperterminal.

- A. Connect the TDI with the TDI extension (Fig 9).
- B. Connect the Mini-B end of the USB cable into the extension board.
- C. Power on both the TDI and the extension.
- D. From the TDI's LCD screen, press the **Left** button to view the **Main Menu**. Scroll down to **Upgrade** menu using the **Down** button and press **Enter**.
- E. Scroll **Down** to **Ext Upgrade** and press **Enter**.
- F. Follow the instructions in Step III. Flashing the TDI

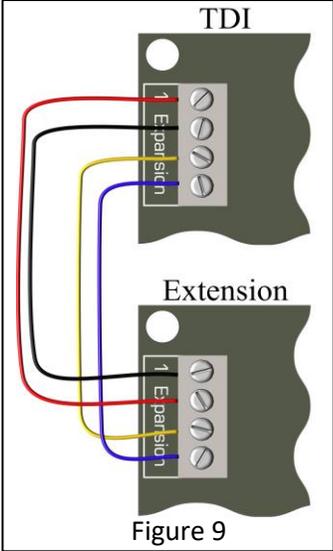


Figure 9

**For additional support, please contact Tucor directly:  
 1-800-272-7472 [www.tucor.com](http://www.tucor.com)**