Test Procedure for the FUSB302 Evaluation Board

Required Equipment:

- FUSB302 EVB
- Type-A to micro-B USB cable
- USB Type-C™ to VGA dongle
- FUSB302 EVB GUI

1. Start the FUSB302 GUI on the PC being used.
2. Connect the FUSB302 EVB to the PC using the USB Type-A to USB micro-B cable.



Figure 1 - EVB connected to PC

3. Make sure the EVB is connected and communicating with the GUI as indicated in the status bar on the bottom of the GUI.

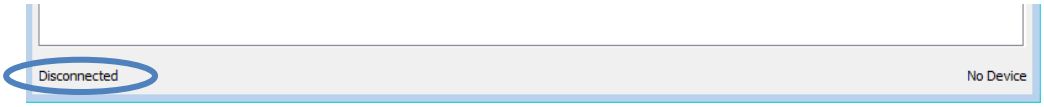


Figure 2 - EVB not attached to PC

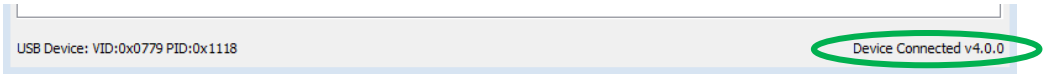


Figure 3 - EVB attached to PC and recognized by GUI

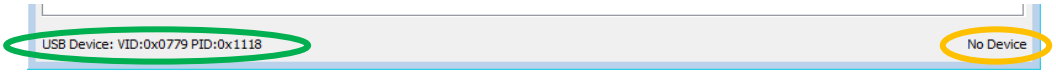


Figure 4 - EVB attached to PC but not recognized by GUI

If the GUI is not recognizing the EVB, as in Figure 4, then click on the Register Map tab of the GUI and change the I^2C address until the GUI does recognize the EVB. The I^2C address can be changed using the dropdown box labeled Addr in the lower left of the tab as shown in Figure 5.

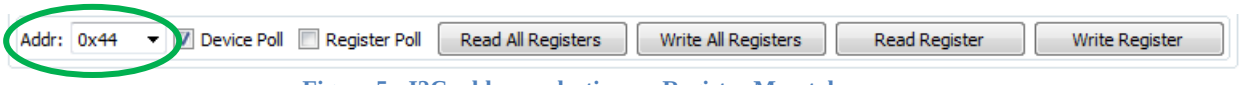


Figure 5 - I2C address selection on Register Map tab

4. Connect the Type-C™ to VGA dongle to the EVB and verify that the dongle attaches.
    a. Verify that the connection state is AttachedSource.
    b. Verify that one of the CC terminations is Rd1p5 and the other is Ra.
    c. Disconnect, flip, and re-connect the dongle.
    d. Verify that the Rd1p5 and Ra have swapped on the CC terminations.
    e. View the PD Control tab and verify that the Send Data Src Caps messages occurred, as in Figure 6.

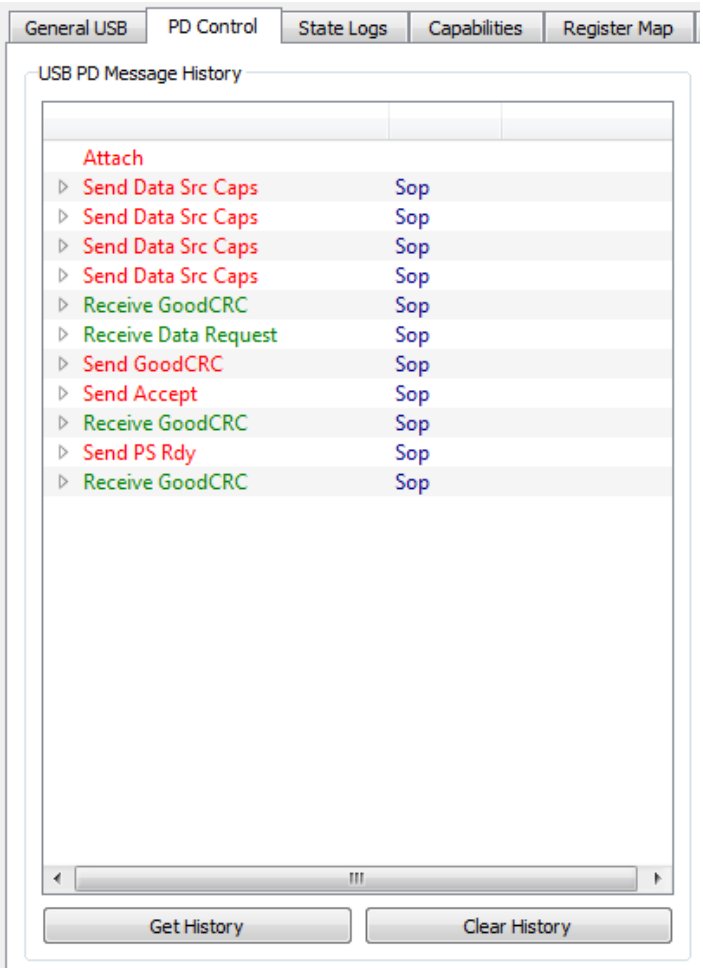


Figure 6 - PD Control tab