Connecting to Piksi Multi
USB to Serial Adapter

Caution: Piksi Multi uses a powerful processor that can generate a significant amount of heat. Use caution when handling the board, as components may reach upwards of 140° F (60° C).

Overview

The USB to Serial Adapter from the Piksi® Multi Evaluation Kit can be used to communicate with Piksi Multi via the RS2323 ports on the Evaluation Board.

Running the Swift Console on a virtual machine (e.g. VMWare, VirtualBox, Parallels) is strongly discouraged. This is due to imperfections in the USB pass-through functionality, which can lead to symptoms such as freezing during firmware updates and glitches in regular operation.

Ensure that the Piksi Multi GNSS module is connected to the evaluation board. Be careful when mating Piksi Multi to the evaluation board! Careless mating of the connectors can damage Piksi Multi and / or the evaluation board. When removing Piksi Multi from the evaluation board, make sure to lift it straight up.

Prerequisites

USB to Serial Driver Installation Guide:
http://support.swiftnav.com/customer/portal/articles/2757197

Installing Swift Console:
http://support.swiftnav.com/customer/portal/articles/2756825

Powering Piksi Multi:
http://support.swiftnav.com/customer/en/portal/articles/2746937

Connections

- Connect the USB connector of the USB to Serial Adapter to the computer
- Connect the DE9 connector of the USB to Serial Adapter to the *RS232 1* port of the Evaluation Board
- Connect a power source to the Evaluation Board
- Start Swift Console
- Select the Serial/USB interface
- Select serial port from the drop-down menu
- Select the connection baud rate (default: *115200*)
- Select Flow Control (default is None) and click OK
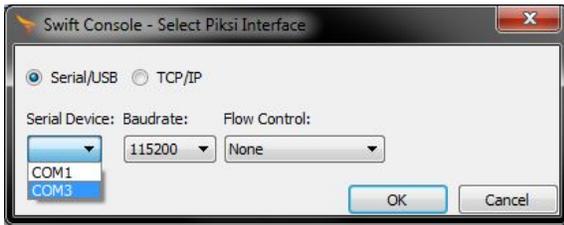
Once Piksi Multi is connected, and Swift Console is running - verify that the data is flowing properly by checking the status indicator located on the bottom right corner of the Console. If this indicator is solid blue, then communications are working as expected.

 Active   *Inactive*

Wiring Diagram

USB <-> Serial (RS-232) adapater

RS232 1   RS232 0

Piksi Multi

[OEM Module]   Evaluation Board

Power (9 - 40 Volts DC)

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NAVIGATION