

How to Program the Spartan 3A Evaluation Board with the “CapsenseUSB” and “CapSenseUSBFinal” Projects

Note: These instructions are written for PSoC Designer 5.0 and PSoC Programmer 3.0

- 1) Connect the evaluation board to the computer through the USB cable (not through the MiniProg)
 - a. If a menu pops up, hit “Cancel”
- 2) Connect the MiniProg to J2 on the evaluation board and connect the MiniProg to the computer through an additional USB cable
 - a. If the MiniProg has not been connected to the computer before, Windows will ask you to install the drivers for the MiniProg
 - b. The drivers can be found under:
C:\Program Files\Cypress Microsystems\PSoC Programmer\drivers
- 3) Open PSoC Designer 5.0
- 4) Click on File>>Open Project/Workspace
 - a. Select the “CapSenseUSB.app” file
- 5) Click on Build>>Generate/Build CapSenseUSB Project
- 6) Click on Program>>PSoC Programmer
- 7) Select the MINIProg1 in the “Port Selection” menu
 - a. Click on Connect
 - b. If a message appears in the dialog window saying “MINI version expecting 1.74 got 1.73”, go to the “Utilities” tab and click “Upgrade Firmware”
- 8) Click on the “Programmer” tab
- 9) Set “Programming Mode” to “Reset” by clicking on the radial button
- 10) Set “Auto Detection” to “ON” by clicking on the radial button
- 11) Click on “Program”
- 12) After programming, if the “Found New Hardware” wizard comes up:
 - a. Click on “No, not this time”, click on next
 - b. Click on “Install from a specific location”, click on next
 - c. Click on “Browse”
 - d. Select the “lib” folder in the “CapSenseUSB” project folder
 - e. Click on “OK” and then click on next
 - f. Click on Continue Anyways
 - g. Click on Finish
- 13) Repeat these steps for the “CapSenseUSBFinal” project