## CY3235 CAPSENSE<sup>®</sup> PROXIMITY DETECTION DEMONSTRATION KIT QUICK START GUIDE



## Install Software

- Download and install PSoC Designer from http://www.cypress.com/go/ psocdesigner.
- 2. Download I2USB\_Bridge\_ConfigFiles.Zip from http://www.cypress.com/go/ CY3235-ProxDet.

Note: See the user guide for details.

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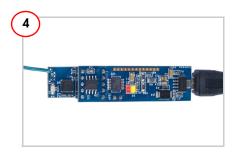
## **Configure Variable Settings**

- Open Chart menu and select Variable Settings.
- 2. Click on the Load button; navigate to and select I2USB\_Bridge\_ConfigFiles\ ProxDet.ini; click OK.

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# **Run Bridge Control Panel**

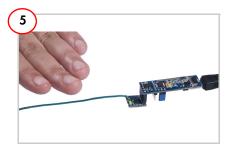
- 1. Select Start Menu > All Programs > Cypress > Bridge Control Panel 1.3 > Bridge Control Panel 1.3.
- 2. Open File menu and select Open File; navigate to and select I2USB\_Bridge\_ ConfigFiles\ProxDet.iic.



## Power CY3235-ProxDet Kit

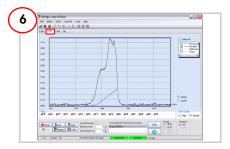
- 1. Connect I2USB Bridge board to the PC using the USB cable.
- 2. Connect I2USB Bridge board to the J1 connector on CY3235-ProxDet board.
- In the Bridge Control Panel, select +5.0 V power and click on Toggle Power. Observe that LED D1 (red) glows to indicate that the kit is powered.

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#### **Evaluate CapSense Proximity Sensing**

- Move your hand near the sensing wire; LED D1 (green) in CY3235-ProxDet board glows.
- 2. Move your hand away from the sensing wire; LED D1 turns off.



#### **Monitor CapSense Data**

- 1. Click on Repeat to execute the read command repeatedly.
- 2. Click on the Chart tab to get the CapSense data graph.
- Clear DiffCount and Status to monitor only RawCount and Baseline graphs. RawCount increases when the hand is near the sensing wire and decreases when moved away.
- 4. Experiment with DiffCount and Status graphs.

#### **Connector Details**

Connector J1 Pin 1 – VDD Pin 2 – GND Pin 3 – XRES Pin 4 – SCL Pin 5 – SDA

The CY3235-ProxDet kit is shipped with a code example (Example\_CY3235\_CSD\_Prox\_Detector.zip) programmed into the device. Download this example from http://www.cypress.com/go/CY3235-ProxDet. See the kit guide for details.

For the latest information about this kit, visit http://www.cypress.com/go/CY3235-ProxDet



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