CY3280-22X45 Universal CapSense® Controller Development Kit Quick Start

1. Kit Contents

Each CY3280-22X45 kit contains:
- CY3280-22X45 Universal CapSense Controller Board
- CY3280-22X45 Universal CapSense Controller Board CD
- CY3240-I2CUSB Board
- CY3210-MiniProg1 Programmer
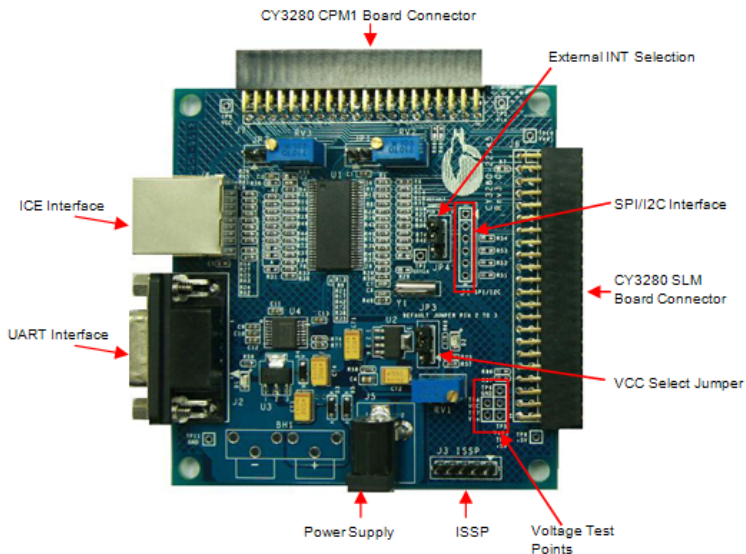- Printed Documents

Prerequisites:
- CY3280-SLM Universal CapSense Linear Slider Module Board
- CY3215-ICE
- CY3250-22X45 Pod

Universal CapSense Module boards are available for purchase separately, or as part of the combination kits. Do visit www.cypress.com for more information.

2. Module Hardware

This kit contains the components and sensors detailed in this figure.
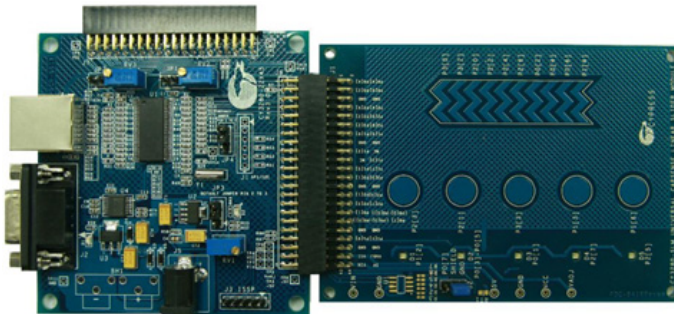
3. Getting Started

The example firmware is available on the CD. Insert the CY3280-22X45 Kit CD into the CD drive of your PC. Follow the instructions to complete software installation. For more information, refer to the CY3280-22x45 Universal Capsense Controller Development Kit Guide available on the CD.

Note The example in this Quick Start is for the CY3280-22X45 Universal CapSense Controller Board and CY3280-SLM Universal CapSense Linear Slider Module Board.
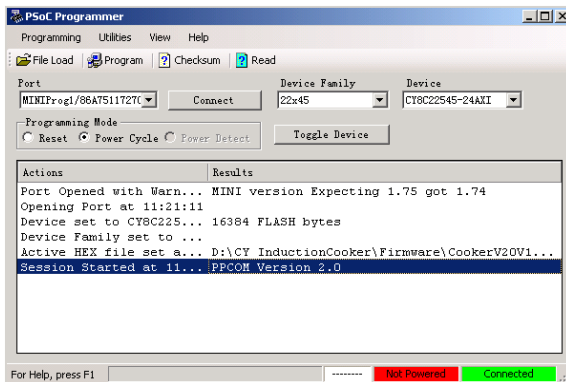
4. Code Example

This example demonstrates the use of CY3280-22X45 Universal CapSense Controller with CY3280-SLM. These instructions assume that your board is programmed with the factory settings.

- Connect the CY3280-SLM board to the CY3280-22X45 Universal CapSense Controller board's P2 receptacle connector

- Place shunts on pins 2 and 3 of JP1 and pins 1 and 2 of JP4 (default setting)
- Place shunts on pins 2 and 3 of JP2 on CY3280-SLM board
- The code examples are available on the CD and on www.cypress.com; search for CY3280-22X45
- To reset the board to the factory conditions, connect your computer to the CY3280-22X45 board ISSP connector (J3) using the PSoC MiniProg and a USB cable
- Open PSoC Programmer by going to the Windows Start menu **All Programs > Cypress > PSoC Programming > PSoC Programmer**
- Click **File Load** and open the *CY3280_22X45_SLM.hex* file on the CD at:
  `Firmware\CY3280_22X45_SLM\CY3280_22X45_SLM.hex`
- From the Device Family menu, select **22X45**

- From the Device menu, select **CY8C22545-24AXI**
- Click **Program**. "Programming Succeeded..." appears in the Actions pane when programming is completed
- Click **Toggle Device Power**. The D1 and D2 LEDs on the CY3280-22X45 board lights red

5. Test the Board

Touch one or more buttons at a time. Each button touch lights up the corresponding LED. You can touch multiple buttons simultaneously.

6. Design Support and Resources

A wealth of information about PSoC Designer™ and CapSense® Best Practices are available on the www.cypress.com web site. For knowledge base articles, customer forums, and online application support, visit www.cypress.com/go/support.

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