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

Doc. # 001-51973 Rev. \*A

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# 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

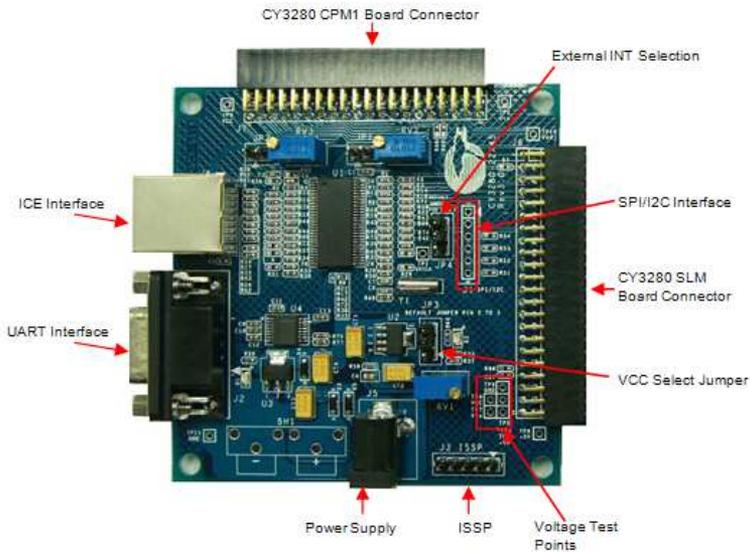
Prerequisites:

- 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](http://www.cypress.com) for more information.

# 2. Module Hardware

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



### 3. Getting Started

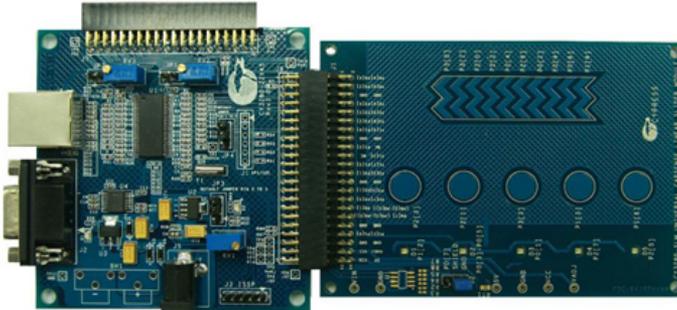
The example firmware is available on the CD. Insert the CY3280-22X45 Kit CD into the CD drive of your PC. Follow the instructions to complete software installation. For more information, refer to the CY3280-22x45 Universal CapSense Controller Development Kit Guide available on the CD.

**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

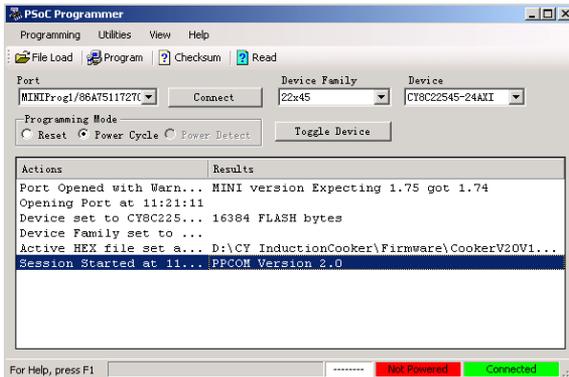
This example demonstrates the use of CY3280-22X45 Universal CapSense Controller with CY3280-SLM. These instructions assume that your board is programmed with the factory settings.

- 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](http://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](http://www.cypress.com) web site. For knowledge base articles, customer forums, and online application support, visit [www.cypress.com/go/support](http://www.cypress.com/go/support).

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Doc. # 001-51973 Rev. \*A