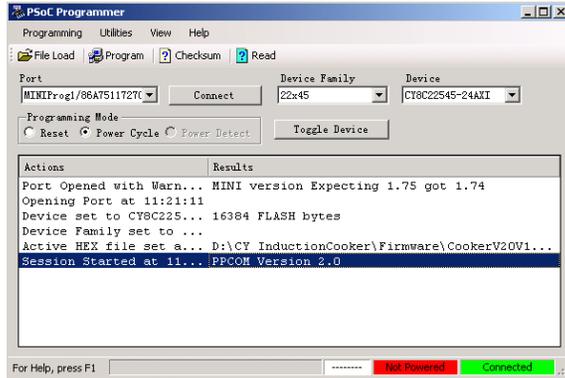


- From the Device menu, select **CY8C22545-24AXI**
- Click **Program**. "Programming Succeeded..." appears in the Actions pane when programming is completed
- Click **Toggle Device Power**. The D1 and D2 LEDs on the CY3280-22X45 board lights red



## 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).



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

Doc. # 001-51973 Rev. \*A

©2009-2011 Cypress Semiconductor Corporation. PSoC Designer and Programmable System-on-Chip are trademarks, and PSoC and CapSense are registered trademarks of Cypress Semiconductor Corp. All other trademarks or registered trademarks referenced herein are property of the respective corporations.



Cypress Semiconductor Corporation  
198 Champion Ct., San Jose, CA 95134 USA  
[www.cypress.com](http://www.cypress.com)



If you have questions, call  
**Cypress Customer Support**  
+1 (800) 541-4736 Ext. 8 (in the USA),  
+1 (408) 943-2600 Ext. 8 (International),  
or visit [www.cypress.com/go/support](http://www.cypress.com/go/support)  
Doc. # 001-51973 Rev. \*A

Cypress Semiconductor  
198 Champion Court  
San Jose, CA 95134-1709  
Phone (USA): 800.858.1810  
Phone (Intl): 408.943.2600  
<http://www.cypress.com>

## 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

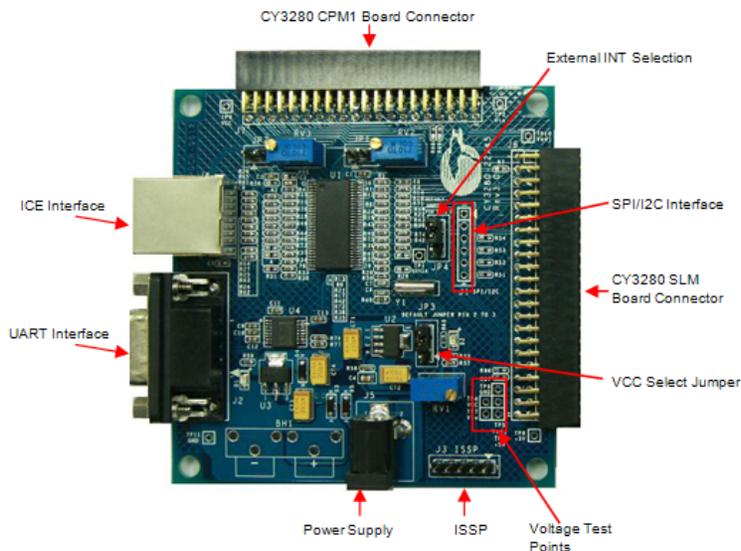
Prerequisites:

- 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

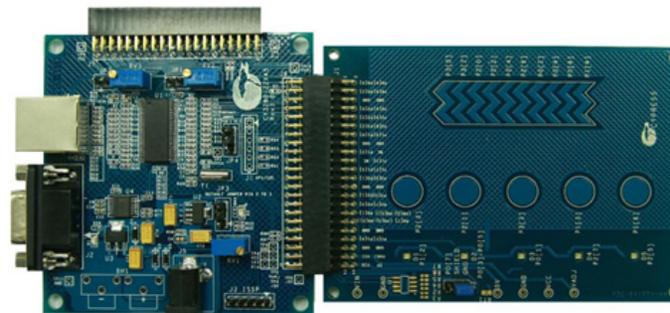
The example firmware is available on the CD. Insert the CY3280-22X45 Kit CD into the CD drive of your PC. Follow the instructions to complete software installation. For more information, refer to the CY3280-22x45 Universal CapSense Controller Development Kit Guide available on the CD.

**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**

## 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

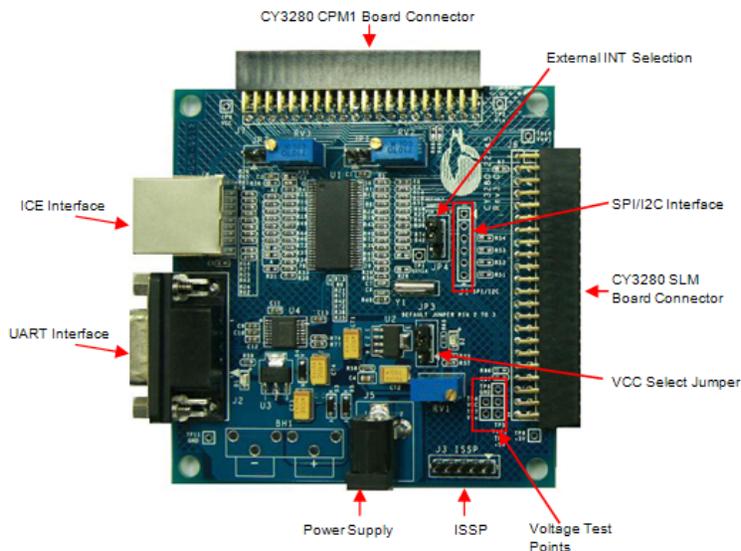
Prerequisites:

- 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

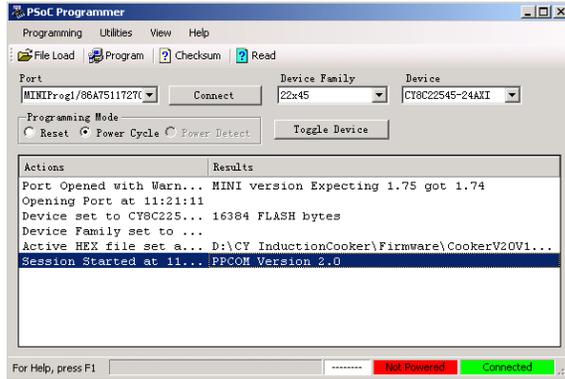
This example demonstrates the use of CY3280-22X45 Universal CapSense Controller with CY3280-SLM. These instructions assume that your board is programmed with the factory settings.

- 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).



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

Doc. # 001-51973 Rev. \*A

©2009-2011 Cypress Semiconductor Corporation. PSoC Designer and Programmable System-on-Chip are trademarks, and PSoC and CapSense are registered trademarks of Cypress Semiconductor Corp. All other trademarks or registered trademarks referenced herein are property of the respective corporations.



Cypress Semiconductor Corporation  
198 Champion Ct., San Jose, CA 95134 USA  
[www.cypress.com](http://www.cypress.com)



If you have questions, call  
**Cypress Customer Support**  
+1 (800) 541-4736 Ext. 8 (in the USA),  
+1 (408) 943-2600 Ext. 8 (International),  
or visit [www.cypress.com/go/support](http://www.cypress.com/go/support)  
Doc. # 001-51973 Rev. \*A

Cypress Semiconductor  
198 Champion Court  
San Jose, CA 95134-1709  
Phone (USA): 800.858.1810  
Phone (Intl): 408.943.2600  
<http://www.cypress.com>

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Touch Sensor Development Tools](#) category:*

*Click to view products by [Cypress](#) manufacturer:*

Other Similar products are found below :

[ATMXT1066T2-DEV-PCB](#) [ATMXT336UDEVPCB](#) [ATMXT641TDAT-I2C-PCB](#) [1374](#) [MIKROE-1906](#) [1602](#) [1982](#) [STEVAL-PCC009V3](#)  
[ATSAMD20-QTRDEMO](#) [ATQT2-XPRO](#) [ATQT6-XPRO](#) [2340](#) [DM160221](#) [DM160229](#) [DM160222](#) [ATQT5-XPRO](#) [DFR0129](#) [SEN0170](#)  
[SLEXP8019A](#) [SLEXP8018A](#) [1375](#) [DFR0386](#) [SEN0148](#) [DK-000013-03](#) [ROB0103](#) [cs-useful-01](#) [SEN0184](#) [SX8651EVKA](#) [1362](#) [2024](#) [3575](#)  
[4830](#) [AS8579-TS\\_EK\\_DB](#) [ATQT600](#) [IQS227/228ASEV01](#) [SKU-6515](#) [CY3280-MBR2](#) [CY3280-MBR3](#) [DFR0030](#) [DM160219](#) [AC160219](#)  
[ATEVK-MXT1066T2-A](#) [ATEVK-MXT1189TAT-C](#) [ATEVK-MXT1189TDAT-A](#) [ATEVK-MXT1665TAT-C](#) [ATEVK-MXT1665TDAT-A](#)  
[ATEVK-MXT225TDAT-A](#) [ATEVK-MXT225TDAT-B](#) [ATEVK-MXT2952TD-A](#) [ATEVK-MXT641TDAT-A](#)