



# PSoC® FirstTouch™ Embedded Design Starter Kit



## Easy and Affordable Starter Kit to Accelerate Mixed-Signal Embedded Application Development

The Cypress PSoC FirstTouch starter kit provides a quick, easy, and affordable way for embedded customers to evaluate the integration, flexibility, and real mixed-signal programmability of PSoC mixed-signal arrays. Without writing a single line of C or Assembly code, you can experience the power of PSoC mixed-signal arrays. Right-out-of-the box you can see a single PSoC device perform several designs — Cypress CapSense™ touch sensing, temperature sensing, light sensing, and CapSense™ proximity sensing. And with Cypress's PSoC Express visual embedded system design tool, you can modify these designs as you wish or even create your own applications.

### ADVANTAGES - Embedded Designs Available for Use Right Out of the Box

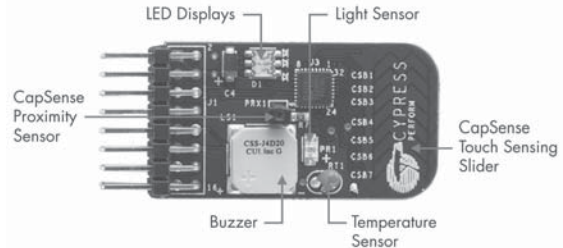
#### Highly Integrated Programmable Kit Optimized for Embedded Applications

- Integrates four embedded applications in a single thumbdrive form factor
- General purpose I/O pins accessible for further evaluation and development
- Detachable multifunction expansion card enables adding PSoC functionality to existing system boards
- USB connectivity for convenient plug and play operation

#### Rapid Time to Market for Embedded Applications

- Design embedded control applications in minutes
- No C or Assembly code necessary with PSoC Express design software
- Accommodates last-minute design changes
- Real mixed-signal programmability provides complete analog and digital functionality on-chip

Design	Functionality	Applications
	Controls LED color depending on a finger's position on the CapSense touch sensing slider	White goods, handsets, consumer electronics, computers and computer peripherals
	Controls LED color and buzzer based on ambient temperature variation	Air conditioning, alarm systems, system and industrial fan control
	Controls LED intensity based on ambient light variation	Consumer electronics, PCs, monitors, mobile phones
	Controls LED color based on proximity to a proximity sensor	White goods, handsets, consumer electronics, computers, and computer peripherals



Visit [www.cypress.com/FirstTouch](http://www.cypress.com/FirstTouch) for more information.

**428-2018-ND FirstTouch™ Starter Kit \$29.95**

## PSoC® Mini Programming Kit

This evaluation kit allows a user to program PSoC devices via the MiniProg programming unit. A MiniEval board is also included in the kit. The MiniEval board is programming and evaluation board which allows socket programming of DIP devices. The MiniEval also includes LEDs and a POT for simple evaluation and demonstration, but does not include a prototyping area. The MiniProg1 utilizes a 5-pin ISSP header to program PSoC Devices on the MiniEval board or directly on a users target board.

#### CY3210-MiniProg1 Kit Includes:

- MiniProg Programming Unit • MiniEval Socket Programming and Evaluation Board • Device Samples • Cable • Software

#### CY3217 Kit Includes:

- MiniProg Programming Unit • USB Cable • Software

428-1585-ND	MiniProg1 Demo Board.....	\$57.70
428-2021-ND	MiniProg Demo Board.....	\$24.65

## PSoC® Evaluation Kit

#### CY3210-PSoCEval1:

The PSoC Evaluation Kit features an evaluation board and MiniProg1 Programming unit. The evaluation board includes an LCD module, Potentiometer, LEDs and plenty of bread boarding space to meet all of your evaluation needs. The MiniProg1 programming unit will program PSoC devices directly on the evaluation board, or on other boards via a 5-pin header. The MiniProg1 is small and compact, and connects to the users PC via a provided USB 2.0 Cable

#### Kit Includes:

- Evaluation board with LCD module • MiniProg1 Programming unit • PSoC Designer Software CD • CY8C29466-24PXI Samples • USB 2.0 Cable • Getting Started Guide

428-1584-ND	Evaluation Kit for PSoC with MiniProg1 .....	\$115.00
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## EZ-Color™ Evaluation Kit

#### CY3261A-RGB:

The CY3261A-RGB board is a preprogrammed HB LED color mix board with seven pre-set colors using the CY8CLED16 EZ-Color HB LED Controller. The board is accompanied by a CD containing the color selector software application, PSoC Express 3.0, PSoC Programmer, and a suite of documents, schematics, and firmware examples. The color selector software application can be installed on a host PC and is used to control the EZ-Color HB LED controller using the included USB cable. The application enables you to select colors via a CIE 1931 chart or entering coordinates.

#### Kit Includes:

- RGB Industrial Lighting Demo Board • Power Supply • Software • Documentation

428-1953-ND	Evaluation Kit for EZ-Color .....	\$149.00
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## PSoC® Development Kit

#### CY3215-DK:

The PSoC Development Kit includes an In-Circuit Emulator (ICE) which consists of a base unit, USB 2.0 cable, and power supply. The base unit is connected to the host PC via the USB port. The ICE is driven by the Debugger subsystem of PSoC Designer. This software interface allows the user to run, halt, and single step the processor. It also allows the user to set complex event points. Event points can start and stop the trace memory on the ICE, as well as break the program execution. In addition to the Development Kit, different Emulation Pods are available to support the range of devices in the PSoC family. The ICE-cube also serves as a single-site device programmer via an ISSP (In-System Serial Programming) Cable and MiniEval board included in the kit. The MiniEval board is a programming and evaluation board that connects to the ICE-Cube via an ISSP Cable and allows programming of DIP devices. There are also other Programming boards available for programming other packages.

#### System Requirements:

- 500MHz Processor • 256MB Ram • 150MB Free Space • USB Port • Windows®, NT4.0, 2000, Me, XP • Internet Explorer 6.0 • Adobe Acrobat Reader

#### Development Kit Includes:

- ICE-Cube Unit • Emulation Pod for CY8C29466-24PXI • CY8C29466-24PXI Samples • PSoC Designer Software CD • ISSP Cable • MiniEval Socket Programming and Evaluation board • Backward compatibility cable (for connecting to legacy Pods) • Power Supply European Plug Adapter • USB 2.0 Cable • Getting Started Guide • Development Kit Registration form • Image Craft C-Compiler License

428-1583-ND	Development Kit for PSoC .....	\$399.99
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## CapSense™ Successive Approximation (CSA) Training Kit

#### CY3203A-CAPSENSE:

The CY3203A CapSense Training Kit includes software, hardware and example projects to help designers learn how to implement PSoC CapSense in their own design using the CY8C20x34 family. A training board is included that is hardwired for buttons and sliders as well as LCD control and I<sup>2</sup>C communication.

#### Kit Includes:

- Training Board (CY8C20x34) • PSoC Designer and Example Project CD • CSA User Module • Mini Programmer Unit • LCD Module • USB Cable

428-1924-ND	Evaluation Kit for CapSense CSA .....	\$88.99
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## CapSense™ Sigma-Delta (CSD) Training Kit

#### CY3213A-CAPSENSE:

The CY3213A CapSense Training Kit includes software, hardware and example projects to help designers learn how to implement PSoC CapSense in their own design using the CY8C21x34 family. A training board is included that is hardwired for buttons and sliders as well as LCD control and I<sup>2</sup>C communication.

#### Kit Includes:

- Training Board (CY8C21x34) • PSoC Designer and Example Project CD • CSD User Module • Mini Programmer Unit • LCD Module • USB Cable

428-1925-ND	Evaluation Kit for CapSense Sigma Delta .....	\$88.99
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More Product Available Online: [www.digkey.com](http://www.digkey.com)

Toll-Free: 1-800-344-4539 • Phone 218-681-6674 • Fax: 218-681-3380