

PSoC® & EZ- Color Development Tools Selector Guide For CY8C29x66, CY8C27x43, CY8C24x94, CY8C24x23A, CY8C21x34, CY8C21x23, CY20x34 and CY8CLEDxx

A guide for development tool selection for Programmable System-on-Chip (PSoC) and EZ-Color designs

Cypress Semiconductor has a Development Tool for every need – from entry-level evaluation and prototyping, to full-speed, real-time emulation and debugging; to programming in a high-volume manufacturing setting.

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Software

Cypress's PSoC Mixed Signal Array comes with Windows-based software and hardware design tools. Fast, efficient, prototyping and design for embedded systems is now a reality. PSoC software is available at no cost. Download at http://www.cypress.com, and the hardware tools that suit your design needs from evaluation to prototyping and emulation are discussed in the following sections:

PSoC Designer[™]

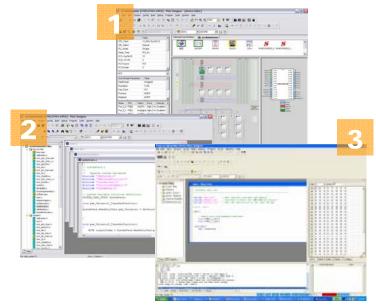
At the core of the PSoC development software suite is PSoC Designer. Utilized by thousands of PSoC

developers, this robust software has been facilitating PSoC designs for half a decade at no cost to the developer. Download PSoC Designer here: http://www.cypress.com/psocdesigner

System requirements: Pentium, equivalent or higher; at least 500MHz, Windows XP or Vista (32/64b); 512MB RAM, 250MB HDD space, Internet Explorer 6.0 (SP1). Also recommended: USB port for programming your PSoC, and an Adobe Reader.

There are three subsystems within PSoC Designer:

- Device Editor: Configure PSoC hardware blocks and IO, route internal signals, and define system parameters.
- Application Editor: Write application code in 'C' or assembly language. (A fully integrated C compiler is accessible with the purchase of a license.)

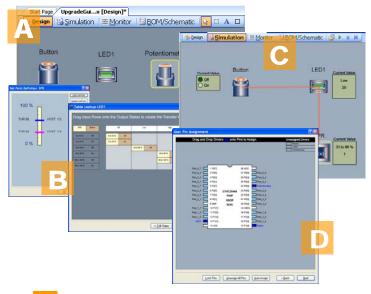


Debugger: Use breakpoints, trace, watch variables, advanced dynamic event points and more.

¹ The Cypress PSoC SW development tools make use of some portions of IE. Other browsers have not been tested. Page 2 of 28

PSoC Express™

PSoC Express is the first visual embedded system design tool that allows a user to create an entire PSoC project and generate a schematic, BOM, and data sheet without writing a single line of code.



Users work directly with application objects such as LEDs, switches, sensors, and fans.

For more information and to download Express, please visit www.cypress.com/express

- A Select inputs and outputs
- B Define the output's behavior
- C Simulate the design to verify
- Build to generate PSoC HEX file, BOM, schematic, and custom data sheets of your design Optimize your design with monitoring and tuning functions

Compilers

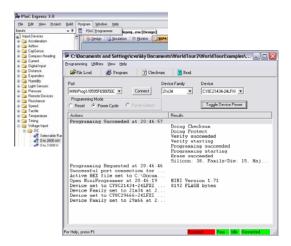
Currently there are two C compilers offered with PSoC Designer™:

IMAGEcraft [™]	HI-TECH™ C PRO for PSoC Mixed Signal Arrays
 ANSI C compiler Inline assembly and interface with assembly modules Modern stack-based architecture 7 basic data types including IEEE 32-bit floating point Assembler and linker Math and string libraries 'C' interrupt service routines Librarian 	 ANSI C compiler Eliminates the need for many non-standard C qualifiers and compiler options Automatically analyzes user assembly and object code files as a whole, with <i>Omniscient Code Generation™</i> technology Memory banking without requiring special qualifiers for better performance Optimizes the size of each pointer variable Eliminates contention for the PSoC index register Produces more efficient interrupt context switching code Customizes the functionality of the printf library function for maximum efficiency Delivers Denser Code For Better Performance - Up to 50% more compact code than others!
Price: \$145 (MSRP)	Price: \$1495 (MSRP)
www.cypress.com/go/imagecraft	www.cypress.com/hitech

PSoC Programmer

PSoC Programmer is a programming application that helps to deliver host-resident application code to the target via a hardware programming tool. Flexible enough to be used on the bench in development, yet suitable for factory programming, PSoC Programmer works as a standalone programming application or it can operate directly from PSoC DesignerTM or PSoC ExpressTM.

PSoC Programmer is the one-stop programming application for Cypress PSoC development tools. http://www.cypress.com/psocprogrammer

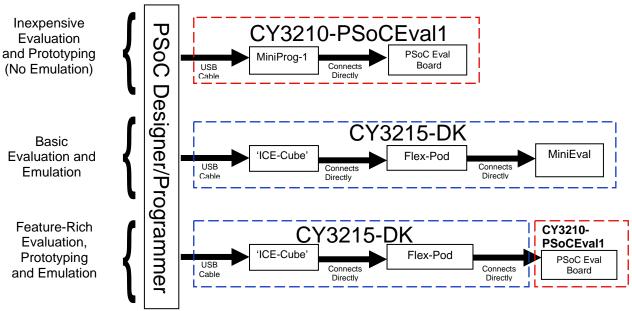


Hardware

This section introduces the major categories of hardware Cypress offers for development with PSoC.

The hardware development for Cypress PSoC falls into five major categories: Demo/Starter Kits, Evaluation Kits, Development Kits, Reference Design Kits, and Programming Kits. Cypress Semiconductor also offers individual Accessories/Kit Components:

- Demo/Starter Kits: Proof-of-Concept demonstration of technology and potential application.
 Starter kits offer cost-effective evaluation of PSoC Technology. Code and hardware are provided for concept feasibility.
- **Evaluation Kits**: Technology evaluation and training tools to provide the end user with a basic level of understanding on how the technology works and can be employed.
- Development Kits: A full-featured platform with hardware and software intended to support the design effort from concept to verification.
- Programming Kits: Programming tools for the PSoC and in-circuit emulation; often bundled with an evaluation board. A programming hardware tool is required for loading your program to the PSoC device, and for debugging on the target. Models range in purpose from programming a device on your desk to heavier duty programmers for use in a production environment.
- **Kit Components & Accessories:** Replacement parts, adaptors, special function daughter modules, and more.

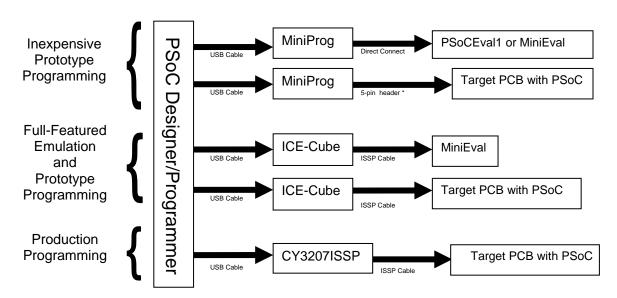


Note: The "ICE-Cube" unit for in-circuit emulation is not available for purchase except as a kit (CY3215-DK.)

Development and Programming Methods

Currently there are four ways to program a PSoC:

- Prototype programming
- Full-featured in-circuit emulation
- Production programming
- Cypress factory programming for high volume orders**



^{*} This friction-lock 5-pin header that connects target PCB to Miniprog can be ordered as DigiKey WM4203-ND.

The following diagram demonstrates one example of a set-up to program a specific PSoC device from a host PC through a USB cable to the ICE, which connects via Flexcable to the POD, which may be seated with a package adaptor (foot) and a PSoC device on a board. These are all the pieces you would need to implement in-circuit emulation.



In the above example, the devices could be described as the following:

QFN Emulation Kit: 1 Flexcable, 1 QFN-type Pod, 2 Feet (for flat-pack style pkgs)

Non-QFN Emulation Kit: 1 Flexcable, 1 Pod, 2 Feet (all other chip packages)

■ POD: Two *types* of emulation Pods exist: for QFN and non-QFN PSoC

packages.

FOOT: Quantity of 4 PSoC device package adapters (FEET)

Flexcable Kit: 1 Flexible Cable

The POD seats a PSoC chip for emulation, and the Foot is a package adapter. You can choose a POD and Foot for your chosen PSoC device/package from the table in the appendix. You may want to order extra feet even if the default feet in your emulator kit (PDIP/QFN) match the package type of your particular PSoC part number.

^{**}Factory programming of a PSoC device by Cypress Semiconductor requires a contract with a minimum order of 100Ku parts per year. Please contact your local Cypress sales office for more information.

In-Circuit Emulation with PSoC

The In-circuit Emulator (ICE) is driven by the Debugger in PSoC Designer[™]. The software interface of the debugger allows the user to run, halt, and single-step the processor with the ICE. 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.

The ICE can also serve as a single-site device programmer via an ISSP Cable and the MiniEval board included in the CY3215-DK kit. The ICE supports large memory model PSoC devices (devices with >256 bytes of RAM) and is backward compatible with previous PSoC devices (CY8C27x43 and CY8C24x23A).

What adapters do you need for your project? In addition to the ICE that is included in the Development Kit (CY3215-DK), different Emulation Pods are available to support the range of packages available in the PSoC family. The PODs plug into (or are soldered onto) the user's circuit board to provide the physical interface to the ICE/ PSoC Device. PODs are available for low-cost expansion of ICE-Cube capability as a modular system.

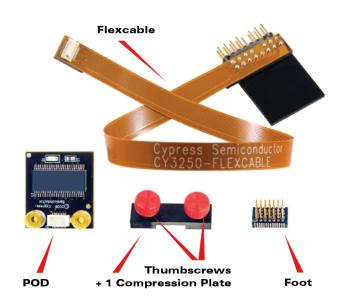


The ICE can only be purchased as a kit: CY3215-DK. In addition, if you are using QFN packages an Emulation Kit (CY3250-xxxx-QFN) must be purchased for adapting the specific package to the POD. The package you choose can be adapted to any POD with a "Foot," or package adapter. Detailed selection guides follow in the appendix.

Each PSoC family has two pod kits associated with it: QFN and Non-QFN, and each type of package offered in that family has one foot Kit for use with that package type.

The following photos demonstrate the connection between the parts:





In-System Serial Programming

The CY3207ISSP, ICE (CY3215-DK), and MiniProg1 (CY3210-MiniProg1) all allow easy In-System Serial Programming (ISSP). A cable is included in the ISSP Development Kit (CY3207ISSP.) All designers are encouraged to include ISSP capability on their printed circuit boards (PCBs.)

ISSP is perfect for prototyping because it allows rapid reprogramming of the PSoC part mounted on the

PCB and eliminates the need for multiple package-specific programmers. ISSP can also be useful in production programming because it eliminates the need for programming individual chips prior to PCB assembly.



Pictured to the right is an ICE-Cube connected directly to a project PCB (the CY3210-PSoCEval1). ISSP can be done with the small ISSP connector. An ISSP connector is pictured to the left. See Application Notes AN2014 and AN2026,

AN2026a, AN2026b for detailed information on ISSP.



The CY3207ISSP is a production-unit programmer. It includes protection circuitry and an industrial case that is more robust than the MiniProg and the ICE for a production-programming environment. The CY3207ISSP can program parts in-system via serial connection, or mounted in the socket on the CY3207ISSP. Use the table to the right to identify the correct programming adapter for CY3207ISSP socket programming. This adapter information is also available at www.emulation.com



PSoC Foot Print	Programming Adapter P/N by Emulation Technologies
8-Pin SOIC	AS-08-01S-3
16-Pin SOIC	AS-16-16-02S-3
20-Pin SOIC	AS-20-20-01S-3-GANG
28-Pin SOIC	AS-28-28-02S-3
20-Pin SSOP	AS-20-20-01SS-3
24-Pin QFN	AS-24-28-01ML-6
28-Pin SSOP	AS-28-28-02SS-6ENP-GANG
32-Pin QFN	AS-32-28-03ML-6
44-Pin QFN	AS-44-28-03Q-6
48-Pin QFN	AS-48-28-02ML-6
48-Pin SSOP	AS-48-48-01SS-6-GANG
56-Pin QFN	AS-56-28-01ML-6
100-Pin TQFP	AS-100-28-01TQ-6

[+] Feedback

Prototyping Modules (CY3210-2xxxx)

PSoC Prototyping Modules are 28-pin PDIP adapters that seamlessly connect any PSoC device package-type to the 28-pin PDIP connector that is default on Cypress PSoC kits. Check the selection tables in the *Kit Components and Accessories* section of this document for a list of Prototyping Modules offered by Cypress. (Note: Prototyping Modules may sometimes be referred to as Evaluation PODs.)

Prototyping Modules offer quick and easy prototyping of any PSoC device and package on a board with just a 600-mil 28-Pin ZIF socket (included in many of our kits, and easy for a user to acquire and build on their own.)

Prototyping Modules feature:

- 28-pin DIP footprint (0.6 in width). Fits in a ZIF socket or breadboard
- ISSP programming header enables programming via ISSP
- Connector for CAT5 cable connection to the ICE-cube
- Port pin-out for 28 pins on bottom of the pod matches port pinouts for the 28 pin PDIP PSoC
- Pins for emulating parts with >28 pins are accessible via receptacles on top of the prototyping module

CY3210-27X43
Prototyping Module

ICE Connection

ISSP Header

Port 3, 4, and 5 (Note 1)

Port 0, 1, 2,
PWR and GND (Note 2)

Note 1: Port 3, 4, and 5 are in 100mil spacing on top

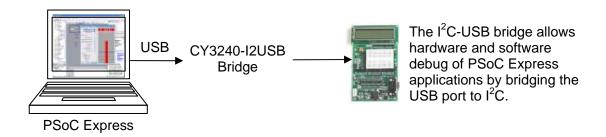
Note 2: Port 0, 1, 2, PWR, and GND are dual inline 600mil width with 28pin configuration similar to CY8C27443, or CY8C24423. For actual device pin out, please refer to device datasheet at www.cypress.com/psoc

Prototyping Modules (CY3210-2xxxx) are not to be confused with *Emulation* PODs (CY3250-2xxxx), although they also connect to the ICE-Cube (CY3215-DK).

I²C-USB Bridge (CY3240-I2USB)

The main purpose of the I^2C -USB Bridge is to test, tune, and debug programs that have an I^2C slave interface. This application can also be useful for data acquisition and regulation under PC control. Cypress offers CY3240-I2USB that supports I^2C interface and communication to test, debug and tune device designs in many PSoC kits.

There is a table of I²C -USB Bridge kits located in the Appendix.



DEMO/STARTER KITS

P/N Description Kit Contents Photo

PSoC® FirstTouch™ Kit

www.cypress.com/FirstTouch

 The PSoC FirstTouch Starter Kit is a USB thumb drive kit that 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.

CY3270

- Without writing or debugging a single line of C or Assembly code, the PSoC FirstTouch Starter Kit, working with Cypress's PSoC Express software development tool, provides designers with CapSense touch, temperature, light and CapSense proximity sensing right out of the box.
- Customers can also experiment with many more designs available or build their own in minutes via PSoC Express. They can also add all of this functionality directly to their own development systems via the detachable expansion card.
- The expansion card includes inputs and outputs for the many applications supported by the kit. No other thumb drive kit offers such an extensive array of applications.

- Two small boards -- a main system board that interfaces with a computer over USB, and a detachable multifunction expansion card.
- User Guide
- Installation CD
- A proximity sensing antenna



CapSense™ Proximity Detection Demonstration Kit

CY3235-PROXDET

- The CapSense Proximity Detection Demonstration Kit allows quick and easy demonstration of a PSoC CapSense-enabled device (CY8C21434) to accurately sense the proximity of a hand or finger along the length of a wire antenna.
- The kit also includes the I²C to USB Bridge, which allows hardware and software debugging of PSoC applications by seamlessly connecting your PC's USB port to your application's I²C interface.
- Proximity Detection Demo Board w/Antenna
- I²C to USB
 Debugging/Communication
 Bridge
- USB Cable (6 feet)
- Supporting Software CD
- CY3235-ProxDet Quick Start Guide
- 1 CY8C24894 PSoC device on I2C-USB Bridge
- 1 CY8C21434 PSoC device on Proximity Detection Demo Board



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Description Kit Contents Photo P/N

I²C Port Expander Lite Demo Kit

The CY3242-IOXLite Demo Kit quickly demonstrates the following value propositions of Cypress' I2C port expander solutions:

CY3242-**IOXLite**

- Integration Flexibility
- Compatibility

- I²C Port Expander Demo Board using CY8C9520 PSoC(R) Port Expander Device
- USB Cable from Board to PC
- Kit Documentation and Design Files CD



[+] Feedback

One Cypress I2C Port Expander device replaces multiple port expander ICs from other vendors and flexibly integrates IO expansion, PWM functions and user EEPROM. It provides integration, flexibility and compatibility to PSoC users.

Cypress' three I2C port expander devices (CY8C9520, CY8C9540, CY8C9560) have the following features:

- Three compatible part families that seamlessly scale up or down
- 20, 40, or 60 individually configurable IO (widest range of I/Os in the industry)
- 4, 8, or 16 PWMs that map to any pin or multiple pins (widest range of PWMs in the industry)
- 3 Kbytes, 11 Kbytes, or 27 Kbytes of User EEPROM (largest amount of user-accessible serial EEPROM in the industry)
- I2C communication up to 400 kHz
- Industrial temp range: -40 to +85 degrees Celsius
- Operating voltage: 3.0V 5.25V
- 28-SSOP/48-SSOP/100-TQFP package options

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EVALUATION KITS

P/N Description Kit Contents Photo

PSoC Evaluation Kit

CY3210-PSoCEval1

- This kit features an evaluation board and MiniProg1 programming unit. The evaluation board includes an LCD module, Potentiometer, LEDs, and plenty of breadboarding 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
- Evaluation Board with LCD Module
- MiniProg Programming Unit
- 28-Pin CY8C29466-24PXI PDIP PSoC Device Sample (2)
- PSoC Designer Software CD
- Getting Started Guide
- USB 2.0 Cable



Express Evaluation Kit

The CY3209-ExpressEVK development kit allows one to put real-world applications together very quickly. This new kit demonstrates many aspects of PSoC with special emphasis on PSoC Express. The kit is physically divided into 4 parts, with each part associated with the CY8C21434, CY8C27643, CY8C24894 and CY8C29666 devices respectively. PSoCs can be I2C networked. The CY3209-ExpressEVK contains an enhanced version of the PSoC Express World Tour board (CY3121-Customer.) The kit includes software, hardware and example projects to help designers learn how to implement and evaluate the following functions:

CY3209-ExpressEVK

- Wireless Communication
- "Drag and drop" USB allows the user to implement full-speed USB 2.0 simply by dragging the USB-UART driver icon onto the Design Desktop within the PSoC SW Design Tool's Integrated Design Environment.
- Implement LCD Control on the board in 5 easy steps: Drop the icon, define the transfer function, Build the project, download to the target & test in real time!
- Accelerometer Tilt Sensing
- Voltage Monitoring

- Express Evaluation Board
- 5V LCD Module
- MiniProg Programming Unit
- USB Cable
- 2 Artaflex 2.4GHz Radios
- 9V Battery
- CY3209-ExpressEVK Kit CD
- Quick Start Guide



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CY3203A-CapSense CSA Evaluation Kit

CY3203A-CapSense

- An excellent CapSense learning resource with software, hardware and example projects to help designers learn how to implement PSoC CapSense in their own design using the CY8C20x34 family with CSA-type sensing.
- A training board is included that is hardwired for buttons and sliders as well as LCD control and I²C communication.
- Training board (CY8C20x34)
- PSoC Designer and Example Project CD
- CSA User Module
- Mini Programmer unit
- LCD module
- USB cable



CY3213A-CapSense CSD Evaluation Kit

CY3213A-CapSense

- An excellent CapSense learning resource with software, hardware and example projects to help designers learn how to implement PSoC CapSense in their own design using the CY8C21x34 family with CSD-type sensing.
- A training board is included that is hardwired for buttons and sliders as well as LCD control and I²C communication.
- Training board (CY8C21x34)
- PSoC Designer and Example Project CD
- CSD User Module
- Mini Programmer unit
- LCD module
- USB cable



CapSensePLUS with USB Evaluation Kit

- This new evaluation kit is specifically for the CY8C24794. It includes an evaluation board and MiniProg1 programming unit.
- CY3214-PSoCEvalUSB

CY3210-

MiniProg1

- The evaluation board features an On-Chip Debugger (OCD). The OCD allows full-featured, on-board emulation of the CY8C24794 when combined with an ICE-Cube (available in the CY3215-DK).
- The board also features USB connectivity and CapSense buttons and slider. Also included on the board is an LCD module, potentiometer, LEDs, an enunciator, and plenty of breadboarding space to meet all of your evaluation needs
- CY8C24794 Evaluation Board with LCD Module
- MiniProg Programming Unit
- PSoC Designer Software CD
- PSoC Support CD (with CY8C24794 Example Projects)
- Getting Started Guide
- USB 2.0 Cable



Mini-Programmer Evaluation Kit

- MiniEval board is a programming and evaluation board that allows socket programming of DIP devices.
- It also includes LEDs and a POT for simple evaluation and demonstration, but does not include a prototyping area.
 - area.
- The MiniProg utilizes a 5-pin ISSP header to program PSoC devices on the MiniEval board or directly on a target board.
- The CY32310-MiniProg1 is fully qualified for prototype and production programming; however, the smallformat plastic enclosure was not designed to withstand the constant use often experienced on a manufacturing assembly line. Cypress recommends the CY3027ISSP as a more appropriate production programming solution.
- MiniProg Programming Unit
- MiniEval Socket Programming and Evaluation Board
- 28-Pin CY8C29466-24PXI PDIP PSoC Device Sample
- 28-Pin CY8C27443-24PXI PDIP PSoC Device Sample
- PSoC Designer Software CD
- · Getting Started Guide
- USB 2.0 Cable



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SD Card Module Evaluation Kit

CY3210-SDCARD

The SD Card Module Evaluation Kit assesses the PSoC SD Card user module's ability to quickly and easily write to, read from and seamlessly integrate an SD card module into an embedded design. Secure Digital (SD) flash memory technologies are quickly becoming the preferred solution for portable, consumer and industrial electronic devices around the world for storing a large amount of information in a small, durable, portable form factor.

- CY3210-PSoCEval1 Rev. B Board
- SD Card Adapter Board
- SD Memory Card
- USB to SD Card Reader
- MiniProg1
- USB Cable
- 12V Power Supply
- One CY8C29466-24PXI 28-pin DIP sample
- PSoC Designer(TM) and PSoC Programmer CD
- Cypress Support Card



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RGB High Brightness LED 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 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 by entering coordinates.

- CY3261A-RGB board
- PSoC Designer(TM) and PSoC Programmer CD
- USB cable
- Power cable



LIN bus Evaluation Kit

CY3220 LINBus-RD

The design kit includes the necessary software, hardware, and example projects for designers to implement all of the functions of the LIN specifications without having to generate any new code. The LIN Protocol Specification is a low-speed communications standard used in many automotive applications, including body control, driver information, multimedia, climate control, safety equipment, cockpit electronics and Human Machine Interface (HMI).

- LIN Bus Reference Design Board
- Three preprogrammed and preinstalled PSoC devices (two CY8C27443-24PXI LIN bus slaves and one CY8C27143-24PXI LIN bus master)
- Software CD with Documentation, Example Projects, and Reference Design IP
- 12V Power Supply
- International Supply Adapter
- DB9 Serial Cable



Pyroelectric Infrared Motion Detection Evaluation Kit

CY3236A-PIRMOTION

- The CY3236A-PIRMOTION EVK allows you to evaluate PSoC device's ability to control a Pyroelectric Infrared (PIR) sensor to implement motion sensing applications such as automatic lighting controls, automatic door openers, security systems, kiosk wakeup and activating wireless cameras.
- The CY3236A-PIRMOTION EVK includes all of the software, hardware, example projects and documentation you need to implement all of these PIR sensing control functions in one flexible and powerful PSoC device, the CY8C27443.
- PIR Motion Sensor Board using CY8C27443-24PVXI PSoC(R) device
- 12V Power Supply
- PSoC Designer(TM) and PSoC Programmer CD
- Design Files CD (Schematic, BOM, Gerber Files, PSoC Designer Example Project)



I²C Port Expander Evaluation Kit

CY3242-IOX

The I²C Port Expander Evaluation Kit allows you to easily assess the integration, flexibility and compatibility of Cypress' I²C port expander solution.

This kit also includes the I²C -USB Bridge, which allows hardware and software debugging of PSoC applications by seamlessly connecting your PC's USB port to your application's I²C interface.

- I²C Port Expander Evaluation Board
- I²C -USB Bridge
- USB Cable (6ft/2m)
- 5V-2A DC Power Supply
- Strip of 10 Post Shunts
- I²C Port Expander Evaluation Kit Mini-CD



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Basic Development Kit

CY3215-DK

The CY3215-DK development kit includes a tiny footprint, high-speed in-circuit USB 2.0-based emulator with a large trace buffer. This kit provides most everything you need to develop your designs with PSoC.

- Image Craft C-Compiler License (also orderable separately as CY3202-C)
- ICE-Cube Unit
- 28 pin PDIP Emulation Pod for CY8C29466-24PXI
- 28 pin CY8C29466-24PXI PDIP PSoC Device Samples (two)
- PSoC Designer Software CD
- ISSP Cable
- MiniEval Socket Programming and Evaluation board
- Backward compatibility cable (for connecting to legacy Pods)
- Universal 110/220 Power Supply (12V)
- European Plug Adapter
- USB 2.0 Cable
- Getting Started Guide
- Development Kit Registration form



Universal CapSense Controller – Basic Kit 1

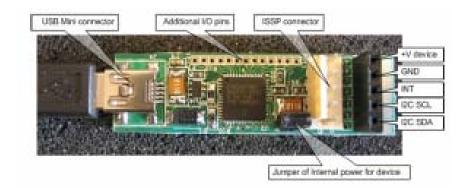
- CapSense Development Kit for CY8C21x34 & CY8C20x34 PSoC device families
- CY3280-BK1
- The CY3280-BK1 Universal CapSense Controller Kit is designed for easy prototyping and debug of CapSense designs with pre-defined control circuitry and plug-in hardware. The kit comes with controller boards for the CY8C20x34 and CY8C21x34 PSoC devices as well as a breadboard module and a button (5) / slider module.
- CY3280-20x34 Board
- CY3280-21x34 Board
- CY3280-SLM Slider Module
- CY3280-BBM Prototyping Module
- CY3240-I2USB Board
- CY3210-MiniProg1 Programmer
 USB 3.0 Patrastable Cable
- USB 2.0 Retractable Cable
- PSoC Express Installation CD
 PSoC Designer and PSoC
- CY3280-BK1 Universal CapSense Controller Kit CD
- 1.5 mm and 3 mm Polycarbonate Overlays



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P/N Description Photo

CY3240-I2USB I²C – USB Bridge Kit (Rev A)



The I2C-USB Bridge Kit allows one to test, tune and debug hardware and software of a PSoC application by bridging the USB port to $\rm I^2C$. Populated with the CY8C24894 PSoC device. A wide variety of devices can be connected to the PC using this bridge. Among them are: EEPROMs, real-time clocks, ADC/DAC converters, LCD displays, regulated DC/DC converters, port expanders and many other devices incorporating the I2C interface. The number of devices that can be connected is constrained only by the I2C address limit and physical ability of the I2C bus. The above photo is a larger view of the board shown to the right.



- I2C-USB Bridge
- I2C Slave Demonstration Board
- USB Mini B Cable (6 feet)
- Supporting Software CD

PSoC PROGRAMMING KITS

P/N Description Kit Contents Photo

"MiniProg" Programmer with Evaluation board

- MiniEval board is a programming and evaluation board that allows socket programming of DIP devices.
- It also includes LEDs and a POT for simple evaluation and demonstration, but does not include a prototyping area.
- The MiniProg utilizes a 5-pin ISSP header to program PSoC devices on the MiniEval board or directly on a target board.
- The MiniProg is fully qualified for prototype and production programming; however, the small-format plastic enclosure was not designed to withstand the constant use often experienced on a manufacturing assembly line.
- Cypress recommends the CY3027ISSP as a more appropriate production programming solution.

- MiniProg (or "MiniProg1") Programming Unit
- MiniEval Socket Programming and Evaluation Board
- 28-Pin CY8C29466-24PXI PDIP PSoC Device Sample
- 28-Pin CY8C27443-24PXI PDIP PSoC Device Sample
- PSoC Designer Software CD
- Getting Started Guide
- USB 2.0 Cable



"MiniProg1" Programmer

CY3217

CY3210-

MiniProg1

Mini-programmer only.

Not for industrial or production programming use.

- MiniProg programmer device
- Std-A to Mini-B USB cable in a reel



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Image Craft C-Compiler License (also orderable separately as CY3209-C)

- ICE-Cube Unit
- 28 pin PDIP Emulation Pod for CY8C29466-24PXI
- 28 pin CY8C29466-24PXI PDIP PSoC Device Samples (two)
- PSoC Designer Software CD
- ISSP Cable
- MiniEval Socket Programming and Evaluation board
- Backward compatibility cable (for connecting to legacy Pods)
- Universal 110/220 Power Supply (12V)
- European Plug Adapter
- USB 2.0 Cable
- Getting Started Guide
- Development Kit Registration form



In-System Serial Programmer

Basic Development Kit

The CY3215-DK development kit includes a

tiny footprint, high-speed in-circuit USB 2.0-

based emulator with a large trace buffer

CY3207ISSP

CY3215-DK

Production-unit programmer. It includes protection circuitry and an industrial case that is more robust than the MiniProg and the ICE for a production-programming environment. The CY3207ISSP can program parts insystem via serial connection, or mounted in the socket on the CY3207ISSP. May require adapters for CY3207ISSP socket programming.

- User Manual
- Production-unit Programmer



KIT COMPONENTS & ACCESSORIES

Foot & Emulation POD Selection Guide

Use this table when selecting an emulation kit and package adapter (foot) for use with your CY3215-DK (In-circuit emulation and programming kit.) Each Emulation Kit contains one POD and two FEET. However, the FEET in each Emulation Kit are a default PDIP style. To emulate with a specific package type, a FOOT of the proper type must be added. FEET come in four to a package and are intended to be disposable for ease-of-use (typically with the Flexcable. See the *Programming Methods* section above for details.)

If you know your PSoC device family and the package type, or the specific PSoC device part number, you will find the recommended Emulation kit (POD + 2 FEET/Package Adapters) below. In most cases, you will also need a foot *that matches your package type* or additional feet to save you time (however, re-use of a FOOT is possible.)

Each table below represents a family of PSoC devices.

Chip Part Number	Package	Dev. Kit	Emulation Kit (POD)	Foot Kit (Pack of 4)	Programmer**
CY8C29466-24PXI	28 PDIP	CY3215-DK	CY3250-29XXX	CY3250-28PDIP-FK	ISSP or MiniProg
CY8C29466-24PVXI	28 SSOP	CY3215-DK	CY3250-29XXX	CY3250-28SSOP-FK*	ISSP or MiniProg
CY8C29466-24SXI	28 SOIC	CY3215-DK	CY3250-29XXX	CY3250-28SOIC-FK*	ISSP or MiniProg
CY8C29566-24AXI	44 TQFP	CY3215-DK	CY3250-29XXX	CY3250-44TQFP-FK*	ISSP or MiniProg
CY8C29666-24PVXI	48 SSOP	CY3215-DK	CY3250-29XXX	CY3250-48SSOP-FK*	ISSP or MiniProg
CY8C29666-24LFXI	48 QFN	CY3215-DK	CY3250-29XXXQFN	CY3250-48QFN-FK	ISSP or MiniProg
CY8C29866-24AXI	100 TQFP	CY3215-DK	CY3250-29XXX	CY3250-100TQFP-FK*	ISSP or MiniProg

^{*}Foot Kit is required in conjunction with Emulation Kit to emulate with the package of this chip part number.

^{**}Programming adapter máy be required. ISSP refers to part number CY3207ISSP; MiniProg refers to part number CY3210-Miniprog1

Chip Part Number	Package	Dev. Kit	Emulation Kit (POD)	Foot Kit (Pack of 4)	Programmer**
CY8C27143-24PXI	8 PDIP	CY3215-DK	CY3250-27XXX	CY3250-8PDIP-FK*	ISSP or MinProg
CY8C27243-24PVXI	20 SSOP	CY3215-DK	CY3250-27XXX	CY3250-20SSOP-FK*	ISSP or MiniProg
CY8C27243-24SXI	20 SOIC	CY3215-DK	CY3250-27XXX	CY3250-20SOIC-FK*	ISSP or MiniProg
CY8C27443-24PXI	28 PDIP	CY3215-DK	CY3250-27XXX	CY3250-28PDIP-FK	ISSP or MiniProg
CY8C27443-24PVXI	28 SSOP	CY3215-DK	CY3250-27XXX	CY3250-28SSOP-FK*	ISSP or MiniProg
CY8C27443-24SXI	28 SOIC	CY3215-DK	CY3250-27XXX	CY3250-28SOIC-FK*	ISSP or MiniProg
CY8C27543-24AXI	44 TQFP	CY3215-DK	CY3250-27XXX	CY3250-44TQFP-FK*	ISSP or MiniProg
CY8C27643-24PVXI	48 SSOP	CY3215-DK	CY3250-27XXX	CY3250-48SSOP-FK*	ISSP or MiniProg
CY8C27643-24LFXI	48 QFN	CY3215-DK	CY3250-27XXXQFN	CY3250-48QFN-FK	ISSP or MiniProg

^{*}Foot Kit is required in conjunction with Emulation Kit to emulate this package.

^{**}Programming adapter may be required. ISSP refers to part number CY3207ISSP; MiniProg refers to part number CY3210-Miniprog1

Chip Part Number	Package	Dev. Kit	Emulation Kit (POD)	Foot Kit (Pack of 4)	Programmer**
CY8C24794-24LFXI	56 QFN	CY3215-DK	CY3250-24X94QFN	CY3250-56QFN-FK	ISSP or MiniProg
CY8C24894-24LFXI	56 QFN	CY3215-DK	CY3250-24X94QFN	CY3250-56QFN-FK	ISSP or MiniProg

^{**}Programming adapter may be required. ISSP refers to part number CY3207ISSP; MiniProg refers to part number CY3210-Miniprog1

Chip Part Number	Package	Dev. Kit	Emulation Kit (POD)	Foot Kit (Pack of 4)	Programmer**
CY8C24123A-24PXI	8 PDIP	CY3215-DK	CY3250-24X23A	CY3250-8PDIP-FK*	ISSP or MiniProg
CY8C24123A-24SXI	8 SOIC	CY3215-DK	CY3250-24X23A	CY3250-8SOIC-FK*	ISSP or MiniProg
CY8C24223A-24PXI	20 PDIP	CY3215-DK	CY3250-24X23A	CY3250-20PDIP-FK*	ISSP or MiniProg
CY8C24223A-24PVXI	20 SSOP	CY3215-DK	CY3250-24X23A	CY3250-20SSOP-FK*	ISSP or MiniProg
CY8C24223A-24SXI	20 SOIC	CY3215-DK	CY3250-24X23A	CY3250-20SOIC-FK*	ISSP or MiniProg
CY8C24423A-24PXI	28 PDIP	CY3215-DK	CY3250-24X23A	CY3250-28PDIP-FK	ISSP or MiniProg
CY8C24423A-24PVXI	28 SSOP	CY3215-DK	CY3250-24X23A	CY3250-28SSOP-FK*	ISSP or MiniProg
CY8C24423A-24SXI	28 SOIC	CY3215-DK	CY3250-24X23A	CY3250-28SOIC-FK*	ISSP or MiniProg
CY8C24423A-24LFXI	32 QFN	CY3215-DK	CY3250-24X23AQFN	CY3250-32QFN-FK	ISSP or MiniProg

^{*}Foot Kit is required in conjunction with Emulation Kit to emulate this package.

^{**}Programming adapter may be required. ISSP refers to part number CY3207ISSP; MiniProg refers to part number CY3210-Miniprog1

Chip Part Number	Package	Dev. Kit	Emulation Kit (POD)	Foot Kit (Pack of 4)	Programmer**
CY8C21234-24SXI	16 SOIC	CY3215-DK	CY3250-21X34	CY3250-16SOIC-FK*	ISSP or MiniProg
CY8C21334-24PVXI	20 SSOP	CY3215-DK	CY3250-21X34	CY3250-20SSOP-FK	ISSP or MiniProg
CY8C21434-24LFXI	32 QFN	CY3215-DK	CY3250-21X34QFN	CY3250-32QFN-FK	ISSP or MiniProg
CY8C21534-24PVXI	28 SSOP	CY3215-DK	CY3250-21X34	CY3250-28SSOP-FK	ISSP or MiniProg
CY8C21634-24LFXI	32 QFN	CY3215-DK	CY3250-21X34QFN	CY3250-32QFN-FK	ISSP or MiniProg

^{*}Foot Kit is required in conjunction with Emulation Kit to emulate this package.

**Programming adapter may be required. ISSP refers to part number CY3207ISSP; MiniProg refers to part number CY3210-Miniprog1

Chip Part Number	Package	Dev. Kit	Emulation Kit (POD)	Foot Kit (Pack of 4)	Programmer**
CY8C21123-24SXI	8 SOIC	CY3215-DK	CY3250-21X23	CY3250-8SOIC-FK*	ISSP or MiniProg
CY8C21223-24SXI	16SOIC	CY3215-DK	CY3250-21X23	CY3250-16SOIC-FK*	ISSP or MiniProg
CY8C21323-24PVXI	20 SSOP	CY3215-DK	CY3250-21X23	CY3250-20SSOP-FK	ISSP or MiniProg
CY8C21323-24LFXI	24 QFN	CY3215-DK	CY3250-21x23QFN	CY3250-24QFN-FK	ISSP or MinProg

^{*}Foot Kit is required in conjunction with Emulation Kit to emulate this package.

**Programming adapter may be required. ISSP refers to part number CY3207ISSP; MiniProg refers to part number CY3210-Miniprog1

Chip Part Number	Package	Dev. Kit	Emulation Kit (POD)	Foot Kit (Pack of 4)	Programmer**
CY8C20334-12LKXI	24 QFN	CY3215-DK	CY3250-20334QFN	CY3250-24QFN-FK	ICE
CY8C20234-12LKXI	16 QFN	CY3215-DK	NaN	CY3250-16QFN-FK	ICE
CY8C20434-12LFXI	32 QFN	CY3215-DK	CY3250-20434QFN	CY3250-32QFN-FK	ICE

^{*}Foot Kit is required in conjunction with Emulation Kit to emulate this package.

**Programming adapter may be required. ISSP refers to part number CY3207ISSP; MiniProg refers to part number CY3210-Miniprog1

KIT COMPONENTS AND ACCESSORIES

Ordering Information

CY3250-24034GPN Emailation support for CY02270-24043 (A) For the Company of the State of the Company of the State of t	Dort Number	Eurotion	Contents	Drice (MCDD)
CY3250-24X54CPN Crisiston support for CY32C24F2A-LPX and CY32C386-24LPX devices. The GPN pod provides the intercorrection between the ICC base unit and the target hardware intercents of the CPX provides the intercorrection between the CPX provides the CPX provides the intercorrection between the CPX provides the CPX provides the intercorrectio	Part Number	Function Replacement Florenble for RSeC CV2350 ICE Red Kit		Price (MSRP)
Development in LiCE bases unit and the target handware, includes 32-OPIN Feet (2). Not (2) 320NF Feet (2)		Emulation support for CY8C24794-24LFXI and CY8C24894-24LFXI devices. The QFN pod provides the interconnection between the ICE base unit and the target hardware includes 56-	One (1) 24X94QFN POD One (1) Flexcable	·
	CY3250-24X23AQFN		One (1) Flexcable	\$135.00
Post	CY3250-27XXXQFN		One (1) Flexcable	\$135.00
between the ICE base unit and the target hardware, includes 24-QFN Feet (2). One (1) Flexcable	CY3250-29XXXQFN		One (1) Flexcable	\$135.00
provides the interconnection between the ICE base unit and the target hardware, includes 32 One (i) Flexcable Two (2) 3202FN Feet (2) CY3250-24DFN-PK Replacement PSoC CY3250 (24-pin OFN) Pod Feet (2014) 240FN Feet (314.0.0) Pod Feet (3200-240FN-PK) Replacement PSoC CY3250 (32-pin OFN) Pod Feet (3200-240FN-PK) Replacement PSoC CY3250 (32-pin OFN) Pod Feet (3200-240FN-PK) Replacement PSoC CY3250 (36-pin OFN) Pod Feet (3200-240FN-PK) Replacement PSoC CY3250 (36-pin OFN) Pod Feet (3200-240FN-PK) Replacement PSoC CY3250 (36-pin OFN) Pod Feet (3200-240FN-PK) Pod Replacement PSoC CY3250-24049CPN Pod (3200-240FN-PK) Pod Replacement PSoC CY3250-24049CPN Pod (3200-2406)CPN Pod (3	CY3250-21X23QFN		One (1) Flexcable	\$135.00
CY3250-247XXX Replacement PScC CY3250 (38-pin GPN) Pod Feet Four (4) 30GPN Feet \$140.00	CY3250-21X34QFN	provides the interconnection between the ICE base unit and the target hardware, includes 32-	One (1) Flexcable	\$135.00
CY3250-24NXA Emulation support for CY8C27436 devices. The pod provides the interconnection between the ICE base unit and the larget hardware, includes 28PDIP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. CY3250-24NXX Emulation support for CY8C27436 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. CY3250-21XX3 Emulation support for CY8C27436 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. CY3250-21XX3 Emulation support for CY8C27434 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all One (1) Flaxcable to CY3250-24XXX Emulation support for CY8C27434 devices. The pod provides the interconnection between the ICE base unit and the larget hardware, includes 28PDIP Feet (2). This pod kit supports all One (1) Flaxcable to CY3250-24XXX Emulation support for CY8C27434 devices. The pod provides the interconnection between the ICE base unit and the larget hardware, includes 28PDIP Feet (2). This pod kit supports all One (1) Flaxcable to CY3250-24XXX Emulation support for CY8C27466 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all One (1) Flaxcable to CY3250-24XX3 Emulation support for CY8C274566 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. CY3250-21X34 Emulation support for CY8C21434 devices. The pod provides the interconnection between the ICE base unit and the target hardware	CY3250-24QFN-FK	Replacement PSoC CY3250 (24-pin QFN) Pod Feet	Four (4) 24QFN Feet	\$140.00
CY3250-24X23AGFN-PCD Replacement PSoC CY3250-2404GPN Pod	CY3250-32QFN-FK	Replacement PSoC CY3250 (32-pin QFN) Pod Feet	Four (4) 32QFN Feet	\$140.00
CY3250-24X940PN-POD Replacement PSoC CY3250-2443AGPN Pod Two (2) 24X940PN Pod \$78.00 CY3250-24X3AGPN-POD Replacement PSoC CY3250-24X3AGPN Pod Two (2) 27XXXQFN Pod \$78.00 CY3250-23XXXQFN-POD Replacement PSoC CY3250-23XXXQFN Pod Two (2) 27XXXQFN Pod \$78.00 CY3250-21X3AGPN-POD Replacement PSoC CY3250-23XXXQFN Pod Two (2) 27XXXQFN Pod \$78.00 CY3250-21X3AGPN-POD Replacement PSoC CY3250-21X3QFN Pod Two (2) 21XX3QFN Pod \$78.00 CY3250-21X3AGPN-POD Replacement PSoC CY3250-21X3QFN Pod Two (2) 21X3AGPN Pod \$78.00 CY3250-21X3AGPN-POD Replacement PSoC CY3250-21X3QFN Pod Two (2) 21X3AGPN Pod \$78.00 CY3250-24X3A Emulation support for CY8C254X3A devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all one-OFN packages in combination with available CY3250 foot kit. One (1) 27XXX POD One (1) 17XXX POD \$135.00 CY3250-29XXX Emulation support for CY8C29X86 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all one-OFN packages in combination with available CY3250 foot kit. One (1) 21XXX POD One (1) 12XXX POD One (1) 12XXX POD One (1) 12XXX POD<	CY3250-48QFN-FK	Replacement PSoC CY3250 (48-pin QFN) Pod Feet	Four (4) 48QFN Feet	\$140.00
CY3250-2XXXX Emulation support for CY8259-28/3XX devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. One (1) 2XXX POD here) \$135.00 CY3250-21X33 Emulation support for CY8C29-63-80 AND POD seement PSoC CY3250-10 AND POD devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. One (1) 24X23A POD Device Pole Pole Pole Pole Pole Pole Pole Pol	CY3250-56QFN-FK	Replacement PSoC CY3250 (56-pin QFN) Pod Feet	Four (4) 56QFN Feet	\$140.00
CY3250-27XXXQFN-POD Replacement PSoC CY3250-27XXXQFN Pod Two (2) 27XXXQFN Pod \$78.00 CY3250-29XXXQFN-POD Replacement PSoC CY3250-21X3QFN Pod Two (2) 29XXXXQFN Pod \$78.00 CY3250-21X3QFN-POD Replacement PSoC CY3250-21X3QFN Pod Two (2) 21X3QFN Pod \$78.00 CY3250-21X3QFN-POD Replacement PSoC CY3250-21X3QFN Pod Two (2) 21X3QFN Pod \$78.00 CY3250-21X3QFN-POD Replacement PSoC CY3250-21X3QFN Pod Two (2) 21X3QFN Pod \$78.00 CY3250-24X3A Emulation support for CY8C27X3A devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all one-QFN packages in combination with available CY3250 foot kit. One (1) 12XXXX POD One (1) 12XXXX POD \$135.00 CY3250-27XXX Emulation support for CY8C27X33 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all one-QFN packages in combination with available CY3250 foot kit. One (1) 28XXX POD \$135.00 CY3250-21X23 Emulation support for CY8C21x23 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all one-QFN packages in combination with available CY3250 foot kit. One (1) 21X3X POD One (1) 12X3X POD One (1) 12X3X POD	CY3250-24X94QFN-POD	Replacement PSoC CY3250-24x94QFN Pod	Two (2) 24X94QFN Pod	\$78.00
CY3250-27XXXQFN-POD Replacement PSoC CY3250-27XXXQFN Pod Two (2) 27XXXQFN Pod \$78.00 CY3250-29XXXQFN-POD Replacement PSoC CY3250-21X3QFN Pod Two (2) 29XXXXQFN Pod \$78.00 CY3250-21X3QFN-POD Replacement PSoC CY3250-21X3QFN Pod Two (2) 21X3QFN Pod \$78.00 CY3250-21X3QFN-POD Replacement PSoC CY3250-21X3QFN Pod Two (2) 21X3QFN Pod \$78.00 CY3250-21X3QFN-POD Replacement PSoC CY3250-21X3QFN Pod Two (2) 21X3QFN Pod \$78.00 CY3250-24X3A Emulation support for CY8C27X3A devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all one-QFN packages in combination with available CY3250 foot kit. One (1) 12XXXX POD One (1) 12XXXX POD \$135.00 CY3250-27XXX Emulation support for CY8C27X33 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all one-QFN packages in combination with available CY3250 foot kit. One (1) 28XXX POD \$135.00 CY3250-21X23 Emulation support for CY8C21x23 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all one-QFN packages in combination with available CY3250 foot kit. One (1) 21X3X POD One (1) 12X3X POD One (1) 12X3X POD	CY3250-24X23AQFN-POD	Replacement PSoC CY3250-24x23AQFN Pod	Two (2) 24X23AQFN Pod	\$78.00
CY3250-29XXXQFN-POD Replacement PSoC CY3250-21X23QFN Pod Two (2) 29XXXQFN Pod \$78.00 CY3250-21X23QFN-POD Replacement PSoC CY3250-21X23QFN Pod Two (2) 21X23QFN Pod \$78.00 CY3250-21X33QFN-POD Replacement PSoC CY3250-21X34QFN Pod Two (2) 21X34QFN Pod \$78.00 CY3250-21X33QFN-POD Replacement PSoC CY3250-21X34QFN Pod Two (2) 21X34QFN Pod \$78.00 CY3250-21X33 Emulation support for CY8C23A3 devices. The pod provides the interconnection between the ICE base until and the target hardware, includes 28PDIP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. \$135.00 CY3250-27XXX Emulation support for CY8C23x66 devices. The pod provides the interconnection between the ICE base until and the target hardware, includes 28PDIP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. \$135.00 CY3250-29XXX Emulation support for CY8C29x66 devices. The pod provides the interconnection between the ICE base until and the target hardware, includes 28PDIP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. \$135.00 CY3250-21X23 Emulation support for CY8C21x23 devices. The pod provides the interconnection between the ICE base until and the target hardware, includes 20SSOP feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. \$135.00 \$135.00		1	` '	1
CY3250-21X3QFN-POD Replacement PSoC CY3250-21X3QFN Pod Two (2) 21X3QFN Pod \$78.00 CY3250-21X3QFN-POD Replacement PSoC CY3250-21X3QFN Pod Tvo (2) 221X3QFN Pod \$78.00 CY3250-24X23A Emulation support for CY8C24x23A devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all one (1) 21XXX POD the (1) Flexcable the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all one (1) 27XXX POD the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all one (1) 27XXX POD the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all one (1) 28PXXY POD the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all one (1) 28PXX POD the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all one (1) 28PXX POD the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all one (1) 28PXX POD the ICE base unit and the target hardware, includes 28PSDIP Feet (2). This pod kit supports all one (2) 28PDIP Feet (2). This pod kit supports all one (2) 28PDIP Feet (2). This pod kit supports all one (2) 28PDIP Feet (2). This pod kit supports all one (2) 28PDIP Feet (2). This pod kit supports all one (2) 28PDIP Feet (2). This pod kit supports all one (2) 28PDIP Feet (2). This pod kit supports all one (2) 28PDIP Feet (2). This pod kit supports all one (2) 28PDIP Feet (2). This pod kit supports all one (2) 28PDIP Feet (2). This pod kit supports all one (2) 28PDIP Feet (2). This pod kit supports all one (2) 28PDIP Feet (2). This pod kit supports all one (2) 28PDIP Feet (2). This pod kit supports all one (2) 28PDIP Feet (2). This pod kit supports a		.,	` '	1
CY3250-21X34QFN-POD Replacement PSoC CY3250-21X34QFN Pod Two (2) 21X34QFN Pod \$78.00 CY3250-24X23A Emulation support for CY8024x23A devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28/PDIP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. One (1) 21X23APOD \$135.00 CY3250-27XXX Emulation support for CY8C27x43 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28/PDIP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. One (1) 21XXX POD (1) 128XXX POD (2) 28/PDIP Feet (2) 128XX POD (2) 28/PDIP Feet (2)			. ,	1
Emulation support for CY8C24x23A devices. The pod provides the interconnection between the ICE base unit and the larget hardware, includes 29PDIP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. CY3250-27XXX		,	` '	1
the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all One (1) Floxcable Two (2) 28PDIP Feet CY3250-27XXX Emulation support for CY8C27x43 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all One (1) Floxcable Two (2) 28PDIP Feet CY3250-29XXX Emulation support for CY8C29x66 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all One (1) Floxcable Two (2) 28PDIP Feet CY3250-29XXX Emulation support for CY8C29x66 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all One (1) 12XXX POD One (1) 12XXX		·	. ,	1
the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 fotok kit. CY3250-29XXX Emulation support for CY8C29X66 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 fotok kit. CY3250-21X23 Emulation support for CY8C21x23 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 20SSOP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 fotok kit. CY3250-21X34 Emulation support for CY8C21x34 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 20SSOP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 fotok kit. CY3250-21X34 Emulation support for CY8C21x34 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 26SSOP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. CY3250-21X34 Emulation support for CY8C21x34 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 26SSOP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. CY3250-29PDIP-FK Replacement PSoC CY3250 (20-pin DIP) Pod Feet CY3250-29PDIP-FK Replacement PSoC CY3250 (20-pin DIP) Pod Feet Four (4) 29PDIP Feet \$140.00 CY3250-18SOIC-FK Replacement PSoC CY3250 (8-pin DIP) Pod Feet Four (4) 29DDIP Feet \$140.00 CY3250-28SOIC-FK Replacement PSoC CY3250 (8-pin SOIC) Pod Feet Four (4) 29SOIC Feet \$140.00 CY3250-28SOIC-FK Replacement PSoC CY3250 (8-pin SOIC) Pod Feet Four (4) 28SOIC Feet \$140.00 CY3250-28SSOIC-FK Replacement PSoC CY3250 (8-pin SOIC) Pod Feet Four (4) 28SOIC Feet \$140.00 CY3250-28SSOIC-FK Replacement PSoC C	C13230-24723A	the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all	One (1) Flexcable	ψ133.00
the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. Emulation support for CY8C21x23 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 20SSOP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. Emulation support for CY8C21x34 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28SSOP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. Emulation support for CY8C21x34 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28SSOP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. Evaluation support for CY8C21x34 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28SSOP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. Evaluation support for CY8C21x34 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28SSOP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. Evaluation support for CY8C21x34 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28SSOP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. Evaluation support for CY8C21x34 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28SSOP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. Evaluation support for CY8C21x34 devices. The pod provides the interconnection between the four (4) 28SOOF Feet S140.00 CY3250-28SOOF.FK Replacement PSoC CY3250	CY3250-27XXX	the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all	One (1) Flexcable	\$135.00
the ICE base unit and the target hardware, includes 20SSOP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. CY3250-21X34 Emulation support for CY8C21x34 devices. The pod provides the interconnection between the ICE base unit and the target hardware, includes 28SSOP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. CY3250-20PDIP-FK Replacement PSoC CY3250 (20-pin DIP) Pod Feet CY3250-28PDIP-FK Replacement PSoC CY3250 (8-pin DIP) Pod Feet CY3250-8PDIP-FK Replacement PSoC CY3250 (8-pin DIP) Pod Feet CY3250-16SOIC-FK Replacement PSoC CY3250 (16-pin SOIC) Pod Feet CY3250-28SOOP-FR Replacement PSoC CY3250 (20-pin SOIC) Pod Feet CY3250-28SOIC-FK Replacement PSoC CY3250 (20-pin SOIC) Pod Feet CY3250-28SOIC-FK Replacement PSoC CY3250 (8-pin SOIC) Pod Feet CY3250-28SSOP-FK Replacement PSoC CY3250 (20-pin SOP) Pod Feet CY3250-28SSOP-FK Replacement PSoC CY3250 (20-pin SOP) Pod Feet CY3250-48SSOP-FK Replacement PSoC CY3250 (40-pin SOP) Pod Feet CY3250-48TOP-FK Replacement PSoC CY3250 (40-pin SOP) Pod Feet CY3250-48TOP-FK Replacement PSoC CY3250 (40-pin TOFP) Pod Feet CY3250-48TOP-FK Replacement PSoC CY3250 (40-pin TOFP) Pod Feet CY3250-48TOP-FK Replacement PSoC CY3250 (40-pin TOFP) Pod Feet CY3250-24X34-POD Replacement PSoC CY3250-24X34 Pod Two (2) 24X34 Pod Two (2) 24X34 Pod S78.00 CY3250-24X34-POD Replacement PSo	CY3250-29XXX	the ICE base unit and the target hardware, includes 28PDIP Feet (2). This pod kit supports all	One (1) Flexcable	\$135.00
the ICE base unit and the target hardware, includes 28SSOP Feet (2). This pod kit supports all non-QFN packages in combination with available CY3250 foot kit. CY3250-28PDIP-FK Replacement PSoC CY3250 (20-pin DIP) Pod Feet Four (4) 20PDIP Feet \$140.00 CY3250-28PDIP-FK Replacement PSoC CY3250 (28-pin DIP) Pod Feet Four (4) 28PDIP Feet \$140.00 CY3250-16SOIC-FK Replacement PSoC CY3250 (8-pin DIP) Pod Feet Four (4) 8PDIP Feet \$140.00 CY3250-20SOIC-FK Replacement PSoC CY3250 (20-pin SOIC) Pod Feet Four (4) 16SOIC Feet \$140.00 CY3250-20SOIC-FK Replacement PSoC CY3250 (28-pin SOIC) Pod Feet Four (4) 28SOIC Feet \$140.00 CY3250-28SOIC-FK Replacement PSoC CY3250 (8-pin SOIC) Pod Feet Four (4) 28SOIC Feet \$140.00 CY3250-28SOIC-FK Replacement PSoC CY3250 (8-pin SOIC) Pod Feet Four (4) 28SOIC Feet \$140.00 CY3250-28SSOP-FK Replacement PSoC CY3250 (20-pin SOIC) Pod Feet Four (4) 28SOIC Feet \$140.00 CY3250-28SSOP-FK Replacement PSoC CY3250 (20-pin SOIC) Pod Feet Four (4) 28SSOP Feet \$140.00 CY3250-28SSOP-FK Replacement PSoC CY3250 (20-pin SOIC) Pod Feet Four (4) 28SSOP Feet \$140.00 CY3250-28SSOP-FK Replacement PSoC CY3250 (28-pin SOIC) Pod Feet Four (4) 28SSOP Feet \$140.00 CY3250-28SSOP-FK Replacement PSoC CY3250 (48-pin SOIC) Pod Feet Four (4) 28SSOP Feet \$140.00 CY3250-48SSOP-FK Replacement PSoC CY3250 (100-pin TQFP) Pod Feet Four (4) 48SSOP Feet \$140.00 CY3250-44SSOP-FK Replacement PSoC CY3250 (44-pin TQFP) Pod Feet Four (4) 44TQFP Feet \$140.00 CY3250-24X23A-POD Replacement PSoC CY3250-24X23A Pod Two (2) 24X23A Pod \$78.00 CY3250-24X23A-POD Replacement PSoC CY3250-24X2A Pod Two (2) 27XXX Pod \$78.00 CY3250-29XXX-POD Replacement PSoC CY3250-29XXX Pod Two (2) 27XXX Pod \$78.00 CY3250-21X23-POD Replacement PSoC CY3250-21X23 Pod Two (2) 21X23 Pod \$78.00	CY3250-21X23	the ICE base unit and the target hardware, includes 20SSOP Feet (2). This pod kit supports	One (1) Flexcable	\$135.00
CY3250-28PDIP-FK Replacement PSoC CY3250 (28-pin DIP) Pod Feet Four (4) 28PDIP Feet \$140.00 CY3250-8PDIP-FK Replacement PSoC CY3250 (8-pin DIP) Pod Feet Four (4) 8PDIP Feet \$140.00 CY3250-16SOIC-FK Replacement PSoC CY3250 (16-pin SOIC) Pod Feet Four (4) 16SOIC Feet \$140.00 CY3250-29SOIC-FK Replacement PSoC CY3250 (20-pin SOIC) Pod Feet Four (4) 20SOIC Feet \$140.00 CY3250-28SOIC-FK Replacement PSoC CY3250 (8-pin SOIC) Pod Feet Four (4) 28SOIC Feet \$140.00 CY3250-8SOIC-FK Replacement PSoC CY3250 (8-pin SOIC) Pod Feet Four (4) 8SOIC Feet \$140.00 CY3250-20SSOP-FK Replacement PSoC CY3250 (20-pin SSOP) Pod Feet Four (4) 20SSOP Feet \$140.00 CY3250-28SSOP-FK Replacement PSoC CY3250 (28-pin SSOP) Pod Feet Four (4) 20SSOP Feet \$140.00 CY3250-48SSOP-FK Replacement PSoC CY3250 (28-pin SSOP) Pod Feet Four (4) 28SOP Feet \$140.00 CY3250-48SSOP-FK Replacement PSoC CY3250 (48-pin SSOP) Pod Feet Four (4) 28SOP Feet \$140.00 CY3250-100TQFP-FK Replacement PSoC CY3250 (48-pin TQFP) Pod Feet Four (4) 44SSOP Feet \$140.00 CY3250-24X94-POD Replacement PSoC CY	CY3250-21X34	the ICE base unit and the target hardware, includes 28SSOP Feet (2). This pod kit supports	One (1) Flexcable	\$135.00
CY3250-28PDIP-FK Replacement PSoC CY3250 (28-pin DIP) Pod Feet Four (4) 28PDIP Feet \$140.00 CY3250-8PDIP-FK Replacement PSoC CY3250 (8-pin DIP) Pod Feet Four (4) 8PDIP Feet \$140.00 CY3250-16SOIC-FK Replacement PSoC CY3250 (16-pin SOIC) Pod Feet Four (4) 16SOIC Feet \$140.00 CY3250-29SOIC-FK Replacement PSoC CY3250 (20-pin SOIC) Pod Feet Four (4) 20SOIC Feet \$140.00 CY3250-28SOIC-FK Replacement PSoC CY3250 (8-pin SOIC) Pod Feet Four (4) 28SOIC Feet \$140.00 CY3250-8SOIC-FK Replacement PSoC CY3250 (8-pin SOIC) Pod Feet Four (4) 8SOIC Feet \$140.00 CY3250-20SSOP-FK Replacement PSoC CY3250 (20-pin SSOP) Pod Feet Four (4) 20SSOP Feet \$140.00 CY3250-28SSOP-FK Replacement PSoC CY3250 (28-pin SSOP) Pod Feet Four (4) 20SSOP Feet \$140.00 CY3250-48SSOP-FK Replacement PSoC CY3250 (28-pin SSOP) Pod Feet Four (4) 28SOP Feet \$140.00 CY3250-48SSOP-FK Replacement PSoC CY3250 (48-pin SSOP) Pod Feet Four (4) 28SOP Feet \$140.00 CY3250-100TQFP-FK Replacement PSoC CY3250 (48-pin TQFP) Pod Feet Four (4) 44SSOP Feet \$140.00 CY3250-24X94-POD Replacement PSoC CY	CY3250-20PDIP-FK	Replacement PSoC CY3250 (20-pin DIP) Pod Feet	Four (4) 20PDIP Feet	\$140.00
CY3250-8PDIP-FK Replacement PSoC CY3250 (8-pin DIP) Pod Feet Four (4) 8PDIP Feet \$140.00 CY3250-16SOIC-FK Replacement PSoC CY3250 (16-pin SOIC) Pod Feet Four (4) 16SOIC Feet \$140.00 CY3250-20SOIC-FK Replacement PSoC CY3250 (20-pin SOIC) Pod Feet Four (4) 20SOIC Feet \$140.00 CY3250-28SOIC-FK Replacement PSoC CY3250 (28-pin SOIC) Pod Feet Four (4) 28SOIC Feet \$140.00 CY3250-8SOIC-FK Replacement PSoC CY3250 (8-pin SOIC) Pod Feet Four (4) 8SOIC Feet \$140.00 CY3250-20SSOP-FK Replacement PSoC CY3250 (20-pin SSOP) Pod Feet Four (4) 20SSOP Feet \$140.00 CY3250-28SSOP-FK Replacement PSoC CY3250 (28-pin SSOP) Pod Feet Four (4) 28SSOP Feet \$140.00 CY3250-48SSOP-FK Replacement PSoC CY3250 (48-pin SSOP) Pod Feet Four (4) 28SSOP Feet \$140.00 CY3250-100TQFP-FK Replacement PSoC CY3250 (100-pin TQFP) Pod Feet Four (4) 48SSOP Feet \$140.00 CY3250-44TQFP-FK Replacement PSoC CY3250 (44-pin TQFP) Pod Feet Four (4) 100TQFP Feet \$140.00 CY3250-24X94-POD Replacement PSoC CY3250 -24X94 Pod Two (2) 24X94 Pod \$78.00 CY3250-24X23A-POD Replacement PSoC CY3250-27XX		, , , ,	. ,	1
CY3250-16SOIC-FK Replacement PSoC CY3250 (16-pin SOIC) Pod Feet Four (4) 16SOIC Feet \$140.00 CY3250-20SOIC-FK Replacement PSoC CY3250 (20-pin SOIC) Pod Feet Four (4) 20SOIC Feet \$140.00 CY3250-28SOIC-FK Replacement PSoC CY3250 (28-pin SOIC) Pod Feet Four (4) 28SOIC Feet \$140.00 CY3250-8SOIC-FK Replacement PSoC CY3250 (8-pin SOIC) Pod Feet Four (4) 8SOIC Feet \$140.00 CY3250-20SSOP-FK Replacement PSoC CY3250 (20-pin SSOP) Pod Feet Four (4) 20SSOP Feet \$140.00 CY3250-28SSOP-FK Replacement PSoC CY3250 (28-pin SSOP) Pod Feet Four (4) 28SSOP Feet \$140.00 CY3250-48SSOP-FK Replacement PSoC CY3250 (48-pin SSOP) Pod Feet Four (4) 48SSOP Feet \$140.00 CY3250-100TQFP-FK Replacement PSoC CY3250 (10-pin TQFP) Pod Feet Four (4) 40TQFP Feet \$140.00 CY3250-44TQFP-FK Replacement PSoC CY3250 (44-pin TQFP) Pod Feet Four (4) 100TQFP Feet \$140.00 CY3250-24X94-POD Replacement PSoC CY3250 -24X94 Pod Two (2) 24X94 Pod \$78.00 CY3250-24X23A-POD Replacement PSoC CY3250-27XXX Pod Two (2) 24X23A Pod \$78.00 CY3250-29XXX-POD Replacement PSoC CY3250-29XXX Pod		, , ,	. ,	1
CY3250-20SOIC-FK Replacement PSoC CY3250 (20-pin SOIC) Pod Feet Four (4) 20SOIC Feet \$140.00 CY3250-28SOIC-FK Replacement PSoC CY3250 (28-pin SOIC) Pod Feet Four (4) 28SOIC Feet \$140.00 CY3250-8SOIC-FK Replacement PSoC CY3250 (8-pin SOIC) Pod Feet Four (4) 8SOIC Feet \$140.00 CY3250-20SSOP-FK Replacement PSoC CY3250 (20-pin SSOP) Pod Feet Four (4) 20SSOP Feet \$140.00 CY3250-28SSOP-FK Replacement PSoC CY3250 (28-pin SSOP) Pod Feet Four (4) 28SSOP Feet \$140.00 CY3250-48SSOP-FK Replacement PSoC CY3250 (48-pin SSOP) Pod Feet Four (4) 28SSOP Feet \$140.00 CY3250-100TQFP-FK Replacement PSoC CY3250 (48-pin TQFP) Pod Feet Four (4) 100TQFP Feet \$140.00 CY3250-44TQFP-FK Replacement PSoC CY3250 (10-pin TQFP) Pod Feet Four (4) 100TQFP Feet \$180.00 CY3250-24X94-POD Replacement PSoC CY3250 (44-pin TQFP) Pod Feet Four (4) 44TQFP Feet \$140.00 CY3250-24X93A-POD Replacement PSoC CY3250-24X94 Pod Two (2) 24X93A Pod \$78.00 CY3250-27XXX-POD Replacement PSoC CY3250-27XXX Pod Two (2) 24X23A Pod \$78.00 CY3250-21X23-POD Replacement PSoC CY3250-29XXX Pod			. ,	1
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CY3250-24X94-POD Replacement PSoC CY3250 (44-pin TQFP) Pod Feet Four (4) 44TQFP Feet \$140.00 CY3250-24X94-POD Replacement PSoC CY3250-24X94 Pod Two (2) 24X94 Pod \$78.00 CY3250-24X23A-POD Replacement PSoC CY3250-24X23A Pod Two (2) 24X23A Pod \$78.00 CY3250-27XXX-POD Replacement PSoC CY3250-27XXX Pod Two (2) 27XXX Pod \$78.00 CY3250-29XXX-POD Replacement PSoC CY3250-29XXX Pod Two (2) 29XXX Pod \$78.00 CY3250-21X23-POD Replacement PSoC CY3250-21X23 Pod Two (2) 21X23 Pod \$78.00		, , , ,	. ,	
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CY3250-24X23A-POD Replacement PSoC CY3250-24X23A Pod Two (2) 24X23A Pod \$78.00 CY3250-27XXX-POD Replacement PSoC CY3250-27XXX Pod Two (2) 27XXX Pod \$78.00 CY3250-29XXX-POD Replacement PSoC CY3250-29XXX Pod Two (2) 29XXX Pod \$78.00 CY3250-21X23-POD Replacement PSoC CY3250-21X23 Pod Two (2) 21X23 Pod \$78.00		, , , , ,	, ,	
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CY3250-21X23-POD Replacement PSoC CY3250-21X23 Pod Two (2) 21X23 Pod \$78.00	CY3250-27XXX-POD	Replacement PSoC CY3250-27XXX Pod	Two (2) 27XXX Pod	\$78.00
	CY3250-29XXX-POD	Replacement PSoC CY3250-29XXX Pod	Two (2) 29XXX Pod	\$78.00
CY3250-21X34-POD Replacement PSoC CY3250-21X34 Pod Two (2) 21X34 Pod \$78.00	CY3250-21X23-POD	Replacement PSoC CY3250-21X23 Pod	Two (2) 21X23 Pod	\$78.00
	CY3250-21X34-POD	Replacement PSoC CY3250-21X34 Pod	Two (2) 21X34 Pod	\$78.00

KIT COMPONENTS AND ACCESSORIES

FOOT / Package Adapters

Replacement of ICE Pod Feet

The following table lists several examples of package adapters (FEET) with photos. These are In-Circuit Emulator (ICE) pod feet for debugging x-pin PDIP PSoC devices with the CY3215-DK ICE and accessory CY3250-2xxxx ICE PODs (not shown).

CY3215-DK and CY3250-2xxxx kits are sold separately.

P/N	Description	Kit Contents	Photo
CY3250- 8PDIP-FK	Replacement ICE Pod Feet (4) for Debugging 8-Pin PDIP PSoC Devices	• Four (4) 8-pin PDIP ICE Pod Feet	
CY3250- 8SOIC-FK	Replacement In-Circuit Emulation (ICE) Pod Feet for Debugging 8-pin SOIC PSoC Devices (Four feet included)	Four (4) 8-pin SOIC ICE Pod Feet	N/A
CY3250- 16SOIC-FK	Replacement In-Circuit Emulation (ICE) Pod Feet for Debugging 16-pin SOIC PSoC Devices (Four feet included)	Four (4) 16-pin SOIC ICE Pod Feet	N/A
CY3250- 20PDIP-FK	Replacement ICE Pod Feet (4) for Debugging 20-Pin PDIP PSoC Devices	Four (4) 20-pin PDIP ICE Pod Feet	
CY3250- 20SOIC-FK	Replacement ICE Pod Feet (4) for Debugging 20-Pin SOIC PSoC Devices	Four (4) 20-pin SOIC ICE Pod Feet	
CY3250- 20SSOP-FK	Replacement ICE Pod Feet (4) for Debugging 20-Pin SSOP PSoC Devices	Four (4) 20-Pin SSOP ICE Pod Feet	
CY3250- 28SSOP-FK	Replacement ICE Pod Feet (4) for Debugging 28-Pin SSOP PSoC Devices	 Four (4) 28-pin SSOP ICE Pod Feet 	

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P/N	Description	Kit Contents	Photo
CY3250- 28SOIC-FK	Replacement ICE Pod Feet (4) for Debugging 28-Pin SOIC PSoC Devices	• Four (4) 28-Pin SOIC ICE Pod Feet	
CY3250- 28PDIP-FK	Replacement ICE Pod Feet (4) for Debugging 28-Pin PDIP PSoC Device	• Four (4) 28-Pin PDIP ICE Pod Feet	
CY3250- 32QFN-FK	Replacement ICE Pod Feet (4) for Debugging 32-Pin QFN PSoC Devices	• Four (4) 32-Pin QFN ICE Pod Feet	CONTROL CONTRO
CY3250- 44TQFP-FK	Replacement ICE Pod Feet (4) for Debugging 44-Pin TQFP PSoC Devices	• Four (4) 44-Pin TQFP ICE Pod Feet	
CY3250- 48SSOP-FK	Replacement ICE Pod Feet (4) for Debugging 48-Pin SSOP PSoC Devices	Four (4) 48-Pin SSOP ICE Pod Feet	
CY3250- 48QFN-FK	Replacement ICE Pod Feet (4) for Debugging 48-Pin QFN PSoC Devices	• Four (4) 48-Pin QFN ICE Pod Feet	
CY3250- 56QFN-FK	Replacement ICE Pod Feet (4) for Debugging 56-Pin QFN PSoC Devices	• Four (4) 56-Pin QFN ICE Pod Feet	
CY3250- 100TQFP-FK	Replacement ICE Pod Feet (4) for Debugging 100-Pin TQFT PSoC Devices	 Four (4) 100-pin TQFP ICE Pod Feet 	

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KIT COMPONENTS AND ACCESSORIES

Prototyping Modules

Prototyping Modules are occasionally referred to as Evaluation PODs. See Programming Methods above for a description.

Kit	Description	Kit Contents	Photo
CY3210- 20x34	CY3210-20x34 provides evaluation of the CY8C20x34 PSoC device family on any PSoC developer kit. PSoC developer kits sold separately.	One (1) CY8C20x34 PSoC Prototyping Module	
CY3210- 21x23	CY3210-21x23 provides evaluation of the CY8C21x23 PSoC device family on any PSoC developer kit. PSoC developer kits sold separately.	One (1) CY8C21x23 PSoC Prototyping Module	
CY3210- 21x34	CY3210-21x34 provides evaluation of the CY8C21x34 PSoC device family on any PSoC developer kit. PSoC developer kits sold separately.	One (1) CY8C21x34 PSoC Prototyping Module	
CY3210- 24x23	CY3210-24x23 provides evaluation of the CY8C24x23A PSoC device family on any PSoC developer kit. PSoC developer kits sold separately.	One (1) CY8C24x23 PSoC Prototyping Module	
CY3210- 24x94	CY3210-24x94 provides evaluation of the CY8C24x94 PSoC device family on any PSoC developer kit. PSoC developer kits sold separately	One (1) CY8C24x94 PSoC Prototyping Module	
CY3210- 27x43	CY3210-27x43 provides evaluation of the CY8C27x43 PSoC device family on any PSoC developer kit. PSoC developer kits sold separately.	One (1) CY8C27x43 PSoC Prototyping Module	

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Kit	Description	Kit Contents	Photo
CY3210- 29x66	CY3210-29x66 provides evaluation of the CY8C29x66 PSoC device family on any PSoC developer kit. PSoC developer kits sold separately.	One (1) CY8C29x66 PSoC Prototyping Module	

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[+] Feedback

Third Party Tools

The following list includes 3rd-party programmer tools that have been specifically designed, tested, and qualified to support streamlined programming of PSoC Programmable System-on-Chip devices:

BP Microsystems: http://www.bpmicro.com/

Programmer Model 1400 and 1700
Running BP WIN Software Revision V4.64.0
Supporting Cypress PSoC Devices CY8C21X23, CY8C21X34, CY8C22X13, CY8C24X23, CY8C27XXX, CY8C29XXX
Qualified March 2007

HiLo: http://www.hilosystems.com.tw/

Programmer Model All 100
Running XACY8C2X.EXE" V1.42
Supporting Cypress PSoC Devices CY8C21X23, CY8C21X34, CY8C24XXX, CY8C26XXX, CY8C27XXX, CY8C29XXX
Qualified March 2007

Wave Technology: http://www.y1000.com

Programmer Model Y1000 Supporting Cypress PSoC Devices CY8C20434-12LKXI Qualified March 2007

The following lists 3rd party compilers that have been specifically designed, tested, and qualified to support PSoC Designer and Programmable System on Chip devices:

HI-TECH Software: http://www.htsoft.com

HI-TECH C PRO for the PSoC® Mixed-Signal Array Supporting Cypress PSoC Devices Compiler for use with PSoC Designer™ Released: October 2007 Available for purchase at www.cypress.com/hitech

Image Craft Compiler: http://www.imagecraft.com

CY3202-C

Compiler for use with PSoC Designer™

Available for purchase at www.cypress.com/CY3202-C

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For information and support on PSoC devices: http://www.cypress.com/psoc. Items may be purchased online at the Cypress Online Store: http://www.cypress.com/ home page. Or you can purchase Development Tools from one of Cypress' accredited distributors.

Cypress Semiconductor 198 Champion Court San Jose, CA 95134-1709 Phone: 408-943-2600 Fax: 408-943-4730 http://www.cypress.com

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