

Design Support and Resources

PSoC Development Software Online

All PSoC development software tools are available for download online. For PSoC Designer 5.0 visit www.cypress.com/psocdesigner, and for PSoC Programmer visit www.cypress.com/psocprogrammer.

PSoC Device Selector Guide

In the PSoC Application Notes section, search for [AN2209](#): The Device Selection Guide for PSoC. It is a useful tool for determining exactly which PSoC device you should use for a specific design project.

PSoC Development Tools Selector Guide

In the PSoC Application Notes section, search for [AN2402](#): The PSoC Development Tools Selector Guide. This is a complete catalog and description of all the development tools that support PSoC devices and when to use them in your design cycle— from concept to production.

PSoC On Demand Training

Visit www.cypress.com/psoctraining to engage in on demand self paced PSoC product and development software training. Learn to design PSoC like the pros, at the introductory, intermediate, and advanced knowledge levels!

PSoC On Site Training

Email training@cypress.com to enquire about PSoC in person training seminars at a location near you. Learn design basics, tips, and tricks from the pros to become a PSoC design expert!

Online Technical Support

For knowledge base articles, customer forums, and online application support, visit www.cypress.com/support.

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Doc. # 001-48758 Rev. **



CY3216 Modular Programmer Kit Quick Start

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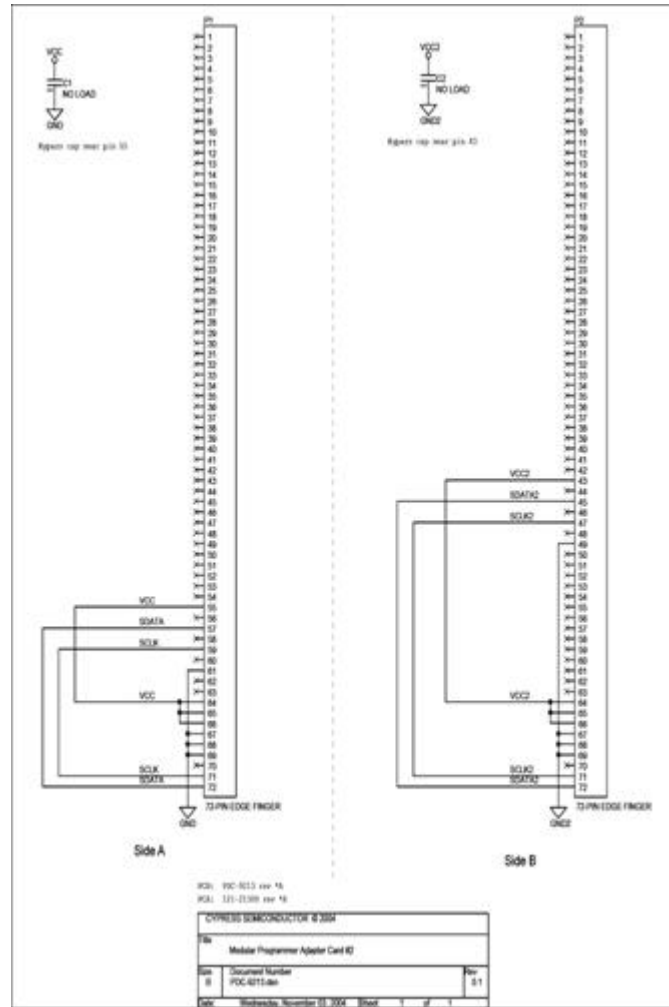
Getting Started

1. [Review Kit Contents](#)
2. [Overview](#)
3. [Features](#)
4. [Programming Devices using CY3216 Modular Programmer](#)
5. [Schematics](#)

1. Review Kit Contents

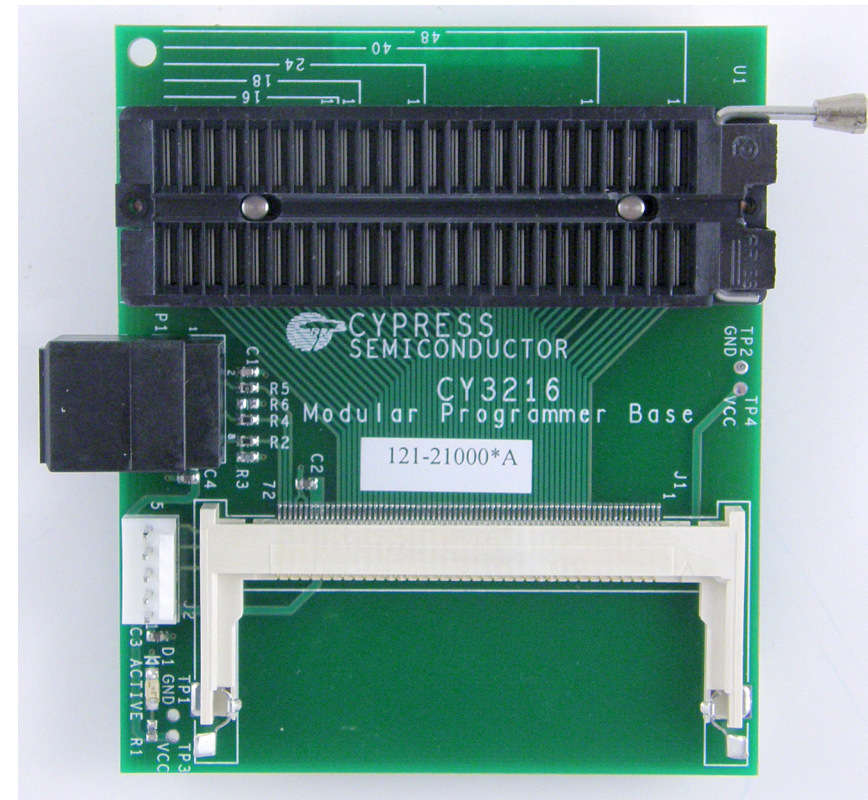
- CY3216 Modular Programmer
- CY3216 Adapter Card #1
- CY3216 Adapter Card #2
- CY3216 Adapter Card #3
- PSoC MiniProg
- USB Retractable A to Mini B cable
- CY3216 CD
- Printed Documentation

5.4 CY3216-03 matrix card schematic



2. Overview

The Cypress Modular Programmer allows PSoC®, enCoRe™ II, Wireless enCoRe II, and enCoRe III devices to be programmed.



3. Features

Modular Programmer features Include:

- Complete programming support for all PSoC, enCoRe II, Wireless enCoRe II, and enCoRe III devices in PDIP packages
- Programming support for PSoC, enCoRe II, Wireless enCoRe II, and enCoRe III devices in surface mount packages with purchase of the appropriate surface-mount adapter socket (sold separately)
- Support for programming from ICE-Cube
- Support for programming from MiniProg
- Modular Programmer supports many other Cypress devices by obtaining the appropriate inexpensive adapter card and socket adapter (if needed)

4. Programming Devices using CY3216 Modular Programmer

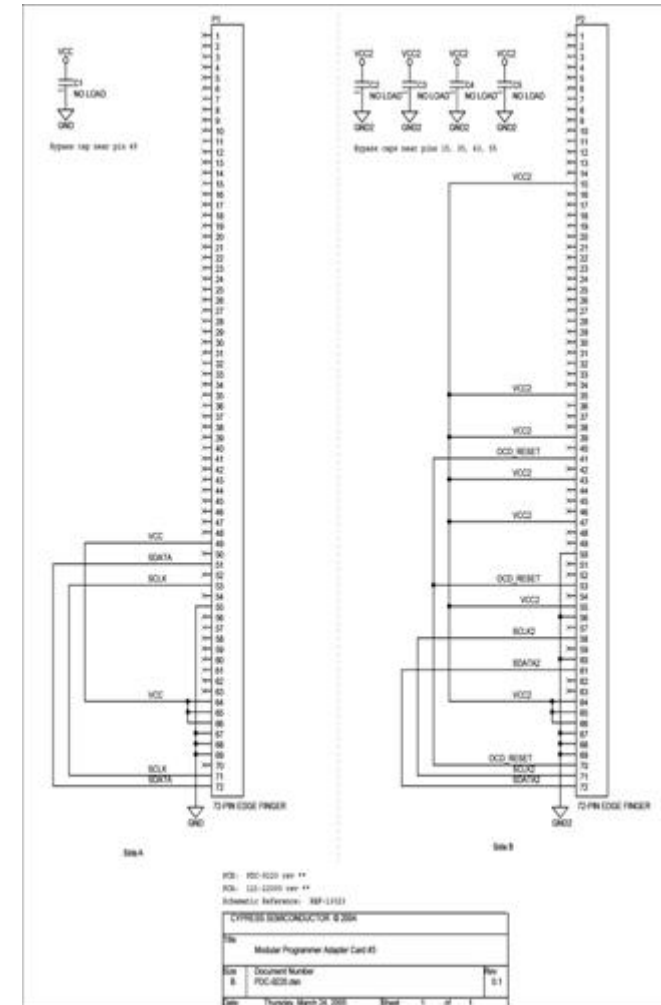
PSoC, enCoRe II, Wireless enCoRe II, and enCoRe III devices can be programmed on the Modular Programmer using the ICE-Cube or MiniProg programmer.

4.1 Using ICE-Cube

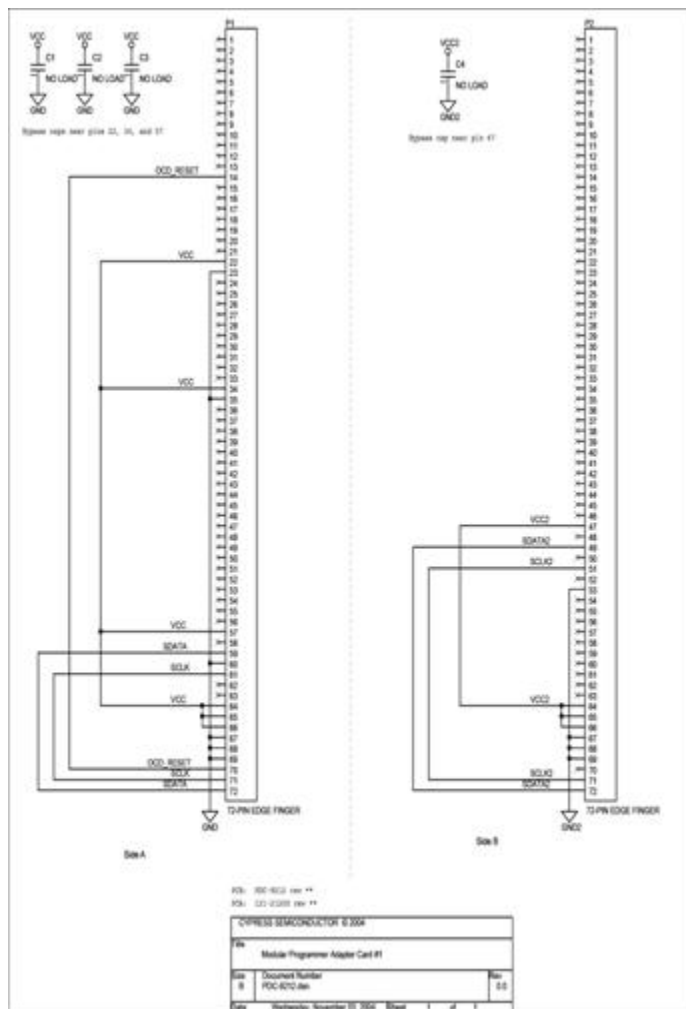
To program the devices follow these steps

1. Using a USB cable, plug the ICE-Cube into a PC that has the PSoC Programmer application installed. Make sure the ICE-Cube is powered on.
2. Connect the ISSSP cable to the ICE-Cube through the RJ45 adapter.
Note: Use the yellow ISSSP cable for enCoRe II or Wireless enCoRe II.
3. Place the 5-pin end of the ISSSP cable on the 5-pin header (J2) of the Modular Programmer Base.
4. Place the device in the socket on the Modular Programmer Base. Any PDIP package is supported natively. Surface mount device requires a surface-mount to PDIP adapter (sold separately). See the Programming Support Matrix table for recommended surface-mount to PDIP adapters.

5.3 CY3216-02 matrix card schematic



5.2 CY3216-01 matrix card schematic



5. Make sure the appropriate module supporting your specific device is in the memory-style DIMM slot of the Modular Programmer Base. See the Programming Support Matrix table to determine the module and orientation of the module that support your device. Note that the correct side of the module (A or B) must be connected to the DIMM connector, and the module must be snapped properly in place.
6. Launch the PSoC Programmer application.
7. In the programming application, select the Port as the ICE-Cube by choosing "USB/xxxxCxxx" where the "x" is specific to the USB device ID of your ICE-Cube. The ICE-Cube may be the only device that is not an LPT port.
8. First select the appropriate device family then select the device to be programmed.
9. Load the programming file using the **File Load** button.
10. Program

4.2 Using MiniProg Programmer

Alternatively, a MiniProg programmer is used for programming rather than the ICE-Cube. To program the devices follow these steps

1. Using a USB cable, plug the MiniProg programmer into a PC that has the PSoC Programmer application installed.
2. Place the MiniProg programmer on the 5-pin header (J2) of the Modular Programmer Base.
3. Place the device in the socket on the Modular Programmer Base. Any PDIP package is supported natively. Surface mount device requires a surface-mount to PDIP adapter (sold separately). See Programming Support Matrix table for recommended surface-mount to PDIP adapters.
4. Make sure the appropriate module supporting your specific device is in the memory-style DIMM slot of the Modular Programmer Base. See Programming Support Matrix table to determine module and orientation of the module that support your device. Note that the correct side of the module (A or B) must be connected to the DIMM connector, and the module must be snapped properly in place.
5. Launch the PSoC Programmer application.

6. In the programming application, select the Port as the MiniProg. After selecting the MiniProg, make sure in the **Results** column of the window that an unexpected firmware version was not found. If necessary, update the MiniProg's firmware by choosing **Upgrade Firmware** in the **Utilities** menu.
7. First select the appropriate device family then select the device to be programmed.
8. Load the programming file using the **File Load** button.
9. Program

5. Schematics

5.1 CY3216 Main Board schematic

