

CY8CKIT-002 PSoC® MiniProg3 Program and Debug Kit

Last Updated: 04/07/2014

The Minipro3 supports the following protocols:

- SWD
- JTAG
- ISSP
- USB-I2C

Included with the kit is a 10-pin ribbon cable for connecting to standard 10-pin JTAG header interfaces utilized for our PSoC 3, PSoC 4 and PSoC 5LP architectures while the device itself supports the 5-pin ISSP programming header for PSoC 1 architectures. The 5-pin connector also supports the USB-I2C Bridging capabilities and is a superset of the [CY3240](#) capabilities. Please note, the CY8CKIT-002 only contains the Minipro3 and supporting cables.



Minipro3 *B Revision Update:

Cypress Semiconductor has completed a hardware update to the Minipro3 to address hardware issues seen with programming, ESD, and power management. The Minipro3 revision, either *A or *B, is indicated using sticker on the back of the programmer. The following are a list of updates made to the Minipro3 *B programmer.

Updated Hardware to Improve Power Cycle Programming:

The Minipro3 hardware has been updated to better improve power cycle programming for all PSoC devices. It was discovered that the Minipro3 *A programmer revision did not correctly implement the power cycle programming methodology. Due to this issue the Minipro3 *A programmer could not correctly support power cycle programming for PSoC 3, PSoC 4 and PSoC 5LP devices. This specifically impacts customers who do not route out the XRES line to the programming connector or disable the optional XRES line on certain devices. The *B revision of the Minipro3 will support power cycle programming for all PSoC 3, PSoC 4 and PSoC 5LP devices.

Over-current and Non-Polarized Connection Updates:

There are known electrical risks to the Minipro3 *A revision that have been addressed with the *B update. To address the electrical issues the Minipro3 *B programmer has added ESD over-current protection to the USB lines and has added electrical protection to the 5 and 10-pin connectors in case of a reverse polarity condition.

Improved Voltage Detection Capabilities:

The Minipro3 *B programmer has been updated to improve the voltage detection capabilities. The Minipro3 will measure the target voltage within an accuracy of 20 mV for a range of 1.8V – 5.0V.

Supported Software:

The Minipro3 *B programmer is supported on the latest release of PSoC Programmer. To download the latest release, please navigate to the PSoC Programmer web page:

www.cypress.com/go/psocprogrammer

Additional Programming Information

The Minipro3 programmer is part of a suite of programming options and programming content available to PSoC users. For customers who are looking for more information on general programming options and information please navigate to the web page linked below. On the General Programming web page we discuss all of the available programming options for customers including Software, Schematics, Programming Specifications, and 3rd party mass programming.

www.cypress.com/go/programming

The MiniProg3 programmer is not recommended for production programming. We suggest customers who need production programming support consult our 3rd party programming vendors on our General Programming page listed above or through our distribution partners: www.cypress.com/go/distributors

Price & Availability

\$89.00 - In Stock

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Related Pages

[CapSense® Controllers](#)
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[PSoC® 5](#)

File Title	Language	File Size	Last Updated
 Minipro3 User Guide.pdf	English	665 KB	06/27/2013
 CY8CKIT-002_MiniProg3_Quick_Start_Guide.pdf	English	567 KB	06/27/2013
 CY8CKIT-002_Release_Notes.pdf	English	126 KB	12/12/2011

Need help? Ask a question and find answers in the [Cypress Developer Community Forums](#).

Low/intermittent bandwidth users tip: Firefox and Chrome browsers will allow downloads to be resumed if your connection is lost during download.

Application Notes	Last Updated
AN50987 - Getting Started with I2C in PSoC® 1	08/27/2013
AN60317 - PSoC® 3 and PSoC 5LP I²C Bootloader	01/02/2015

User Module Datasheets	Last Updated
User Module Datasheet: I2C Bootloader Datasheet BootLdrI2C V 3.00 (CY7C603xx, CY7C64215, CY8C20x24, CY8C20x34, CY8C21x12, CY8C21x34, CY8C21x45, CY8C22x45/H, CY8C23x33, CY8C24x23A/33/94, CY8C27x43, CY8C28xxx, CY8C29x66, CY8CLEDxx, CY8CPLC20, CY8CTMA120, CY8CTMG120, CYWUSB6953)	05/22/2014

Development Kits	Last Updated
Apple and Linux OS Support for PSoC® Software and Kits - KBA87545	05/29/2013

Development Kits/Boards	Last Updated
General PSoC® Programming	11/18/2014
CY8CKIT-050 PSoC® 5LP Development Kit	04/07/2014
CY8CKIT-001 PSoC® Development Kit	04/07/2014
CY8CKIT-030 PSoC® 3 Development Kit	08/02/2013

Knowledge Base Articles	Last Updated
How to Design with PSoC® 3, PSoC 4, and PSoC 5LP - KBA86521	11/28/2013