



PSoC® Programmer 3.12 Release Notes

PSoC Programmer version 3.12

Release Date: July 28, 2010

Thank you for your interest in PSoC® Programmer 3.12. These release notes list all new features, installation requirements, supported devices and defects fixed from the previous release.

PSoC Programmer supports PSoC Creator™ and PSoC Designer™ applications as well as supporting secondary application such as the Bridge Control Panel and the Clock Programmer. PSoC Programmer provides a COM layer customers can use to create applications using Cypress hardware.

PSoC Programmer supports all PSoC architectures including PSoC® 1, PSoC 3 and PSoC 5.

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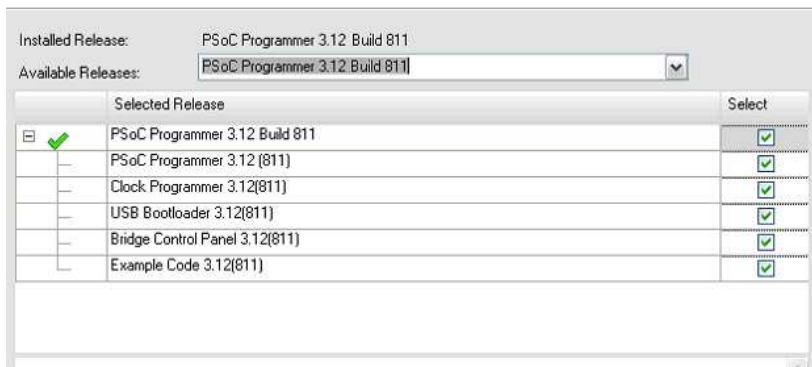
New Features for PSoC Programmer 3.12

This release expands device support for the PSoC Designer 5.1 release and the PSoC Creator Beta 5 release, which includes fixes critical defects from the PSoC Programmer 3.11.0 release and supports the multiple product installation support from within the CyInstaller. This release also contains updates to the Bridge Control Panel, which includes new GUI updates to support the TrueTouch™ Bridge.

Multiple Application Install

The CyInstaller for PSoC Programmer 3.12 uses a selectable installation model. In previous releases CyInstaller would automatically install PSoC Programmer and all related software products in a single installation. For this release the updated CyInstaller allows you to select the individual applications you want to install. You must install PSoC Programmer in order to install any of the related applications. This new model allows you to update individual tools without updating all related tools.

However, you must update at least PSoC Programmer in order to update related tools. When you install or update to PSoC Programmer 3.12, CyInstaller presents you with the option to update each other application individually. Simply uncheck the applications you do not want to install.



New Hardware Support:

PSoC Programmer 3.12 and Bridge Control Panel 1.2 now support the TrueTouch Bridge programmer and bridge hardware. The TrueTouch Bridge supports PSoC 1 programming and USB-I2C, USB-SPI, and USB-RX (debug) interface. The TrueTouch Bridge is included in the CY3290-DK Kit and will be supported from the PSoC Programmer COM layer.

Bridge Control Panel v1.2

PSoC Programmer 3.12 includes the Bridge Control Panel v1.2. The Bridge Control Panel v1.2 includes the following new features:

- New features to support TrueTouch Bridge capabilities.
- Support for SPI bridging capabilities and selections.

Clock Programmer v1.3

There are no updates to the Clock Programmer for this release.

New Supported Devices

The following table lists the new device support for PSoC Programmer 3.12.

Device Family	Device
CY8C20xx6	CY8C20746-24FDXC
	CY8C20766-24FDXC
	CY8C20336AN-24LQXI
	CY8C20436AN-24LQXI
	CY8C20636AN-24LTXI
CY8C20x34	CY8C20134-12SXI
	CY8C20234-12SXI

Device Family	Device
CY8C21x12	CY8C21312-24PVXA
	CY8C21512-24PVXA
CY7C603xx	CY7C60323-LTXC
	CY7C60333-LTXC
CY7C64215	CY7C64215-56LTXC
CY7C638xx	CY7C63833-LFXC
	CY7C63833-LTXC
CYRF69xxx	CYRF69103-40LTXC
	CYRF69103A-40LTXC
	CYRF69213-40LTXC
	CYRF69213A-40LTXC
CYWUSB6953	CYWUSB6953-48LTXC
CY8CTMA3xx	CY8CTMA300E-48LQXI
	CY8CTMA350-LTI-XX

Update / Upgrade Notes

Upgrade Using Cypress Update Manager

All users who installed PSoC Programmer 3.12 or earlier, should use the CyInstaller Update Manager to upgrade their programmer release.

PSoC 3 ES1 vs. ES2 vs. ES3 Support

PSoC Programmer 3.12 allows Hex files targeting specific silicon to be programmed into that silicon only. For example, if you generate a Hex file for ES1 revision silicon, you will not be able to program that file into ES2 or ES3 devices. Warning messages are displayed if you attempt to program a Hex file into the wrong silicon revision. Make sure the tools you are using support the silicon revision you are using.

Coexistence with Older PSoC Programmer Releases

Uninstall all releases of PSoC Programmer 3.06 and earlier before you install or update to PSoC Programmer 3.12.

Defects Fixed

The following defects were fixed in this release of PSoC Programmer

Defect	Fix and Impact	Defect
Programmer Application		
Programming failure with the CY8C28533-24AXI devices.	The device database was updated to fix the error.	73513
Signed Drivers for TrueTouch Bridge	Drivers have been signed for Vista and Win 7 systems.	77280

Programming issues with CY8CLED08-28PVXI devices found.	The device database was updated to fix the error.	79607
Hardware		
N/A	N/A	N/A
Installer		
N/A	N/A	N/A
Documentation		
N/A	N/A	N/A
Bridge Control Panel		
Example projects included in the Bridge Control Panel folder do not compile.	The file properties on the example projects were set to read only. This defect is fixed. Example projects should build and compile without modification.	75326
The vertical scale operation is not updating correctly when using the pan feature on the graph.	The charting features have been updated to better support the pan feature.	73850
I2C speed and voltage selections should be retained.	Implemented auto saving of last Clock and VCC selections.	60971

Known Issues

The following is a list of known issues for PSoC Programmer 3.12 release.

Defect	Fix and Impact	Defect
Miniprogram1 firmware v1.77 causes an acquire failure.	In previous releases of the Miniprogram1 firmware, the reset line was pulled low during power cycle programming. The Miniprogram1 now supports devices that have active high reset line states. To account for this, the Miniprogram1 now leaves the reset line in a high-z state. Be aware of any pull up or pull down resistor circuitry that could hold the chip in a reset state.	69058

<p>Power Cycle Mode for PSoC 3 and PSoC 5 using the Minipro3 is implemented with reset toggling.</p>	<p>The Power Cycle mode for the Minipro3 is currently using the reset line to acquire the target device using both SWD and JTAG protocols. A firmware solution will be available for future revisions of silicon. If development is blocked please file a tightlink support case with Cypress.</p>	<p>69694</p>
<p>CyInstaller Live Update is not supported for Windows 2000 systems.</p>	<p>Customers will be able to install PSoC Programmer using the CyInstaller. To update to a new version users must completely uninstall the existing version of PSoC Programmer using CyInstaller and then download the latest CyInstaller from the PSoC Programmer web page.</p>	<p>75099</p>

Limitations

The following are known limitations with PSoC Programmer:

- You must change the programming mode manually using the provided buttons.
- The supported programming and bridging hardware can only be used by one application at a time. Closing the port in one application releases the hardware for other client applications.
- There is no programming support for wafer sale parts.
- When programming verification fails, the specific failing location(s) are not indicated.
- ICE4000 is no longer supported in PSoC Programmer.
- When using the ICE-Cube or MiniProg1 for programming, PSoC Programmer applies 3.3V to the XRES pin during connection. This may cause power to be applied to the target system. During programming, 3.3V is applied to the target system's SCLK(P1-1), SDATA (P1-0), and XRES pins.
- The MiniProg1 programmer does not support CY8C25/26xxx parts. The ICE-LPT and ICE-4000 programmers supported the CY8C25/26xxx parts. Users will need to use PSoC Programmer version 2.33 or earlier if needed.
- A very infrequent USB connection issue notifies you that an unknown device was detected when a MiniProg is plugged in. Unplugging the MiniProg1 and then reconnecting it solves this issue.
- PSoC Programmer may experience “Can't Acquire Device” errors for CYRF69103-40LFXC. There have been intermittent reports of “Can't Acquire Device” errors, which may be individually chip dependent. Programming another device clears the problem.
- If you select the Fixed Reminder option, please know that there may not be an update for PSoC Programmer currently available. Please reset the reminder interval under the Fixed Reminder, switch to an automatic web update, or disable the update reminder. Close and restart PSoC Programmer to reset the notification in the banner and in the status window.
- CY3210-Minipro3 may have two capacitors soldered onto the SCL and SDA programming lines causing failures during programming. To remove these capacitors, please contact Cypress technical support for additional steps in addressing this issue.

- The CY3240 USB-I2C Bridge firmware cannot be upgraded in the field. Users are urged to purchase a Minipro3 programmer-bridge, which supports USB-I2C functionality and supports field upgrades.

Installation

Minimum and Recommended Requirements

Hardware/Operation System Requirements	Minimum	Recommended
• Processor Speed	2 GHz	2 GHz Dual Core
• MB of RAM	2 GB	3 GB
• MB of Free Hard Drive Space	1 GB	1 GB
• Screen Resolution	1024x768	1280x1024
• CD/DVD Drive	Not Req.	✓ *
• USB	Full Speed	2.0 Hi-Speed
• Win 2000, Windows® XP (SP2 or higher), Vista, or Windows 7	✓	✓
Software Prerequisites **	Minimum/Recommended Version	
• Microsoft Internet Explorer (not IE8 beta)	7	
• .NET Framework	2.0 SP1	
• Adobe Reader (for viewing PDF Documentation)	6	9+
• Windows Installer	3.1	

* CD/DVD drive is only required for installation with no web access.

Applications Dependent on a PSoC Programmer Installation

The following applications require PSoC Programmer to be preinstalled

- PSoC Designer
- PSoC Creator

The following applications are included in the PSoC Programmer installation:

- Bridge Control Panel is selectable from PSoC Programmer CyInstaller installation
- Clock Programmer is selectable from PSoC Programmer CyInstaller installation

Update Instructions

As part of the installation process, the Cypress Update Manager utility will also be installed and located on the **Start** menu under the Cypress folder. You can use this utility to update all programs you have installed when updates for them become available.

Follow the instructions provided by CyInstaller.

Installation Notes

The installation process is a set of wizards that walk you through installing various components. You can install PSoC Programmer and various prerequisites from the web, or from a CD. There are slight differences in the process, based on the medium used to install the software. CyInstaller is supported by both a web installation and through an ISO image that can be downloaded and burned to a CD.

The CDs provide the necessary prerequisites and the wizards to guide you through installing the appropriate software. The Web installation requires you to download and install the executables separately. The following sections contain more specific installation details.

Note Do NOT plug in any programming hardware until all software installation is complete.

Web Installation

If you are downloading the software from the web you should run the PSoC Programmer executable.

1. Double-click the PSoC Programmer executable file to launch PSoC Programmer InstallShield Wizard.
2. Install all prerequisites as needed.
3. Follow the prompts to install PSoC Programmer. The CyInstaller for PSoC Programmer opens and displays a series of steps to install PSoC Programmer and various drivers. When complete, close the installer.

Please note that some users will experience installation failure using the web installation method, this is commonly due to firewall or administration privileges. Please contact your IT individual for assistance or download the ISO image provided on the Programmer web page and burn the image and install Programmer from the CD.

PSoC Programmer CD Installation

The PSoC Programmer ISO image contains PSoC Programmer, as well as various prerequisites.

1. Burn and Load the CD into the PC. The main installer program should run automatically. If not, double-click the cyautorun.exe file to launch it.
2. On the main installer, click the **Install Software for PSoC...** button to launch the PSoC Creator InstallShield Wizard.
3. Follow the prompts on the wizard. The first step will prompt to install PSoC Programmer.
The CyInstaller for PSoC Programmer opens and displays a series of steps to install PSoC Programmer and various drivers.
4. Continue to follow the prompts until PSoC Programmer and the drivers are installed, and then resume with the main installer program.

Cypress PSoC Kit CD Installation

A kit CD contains PSoC Programmer as well as additional applications such as PSoC Creator or PSoC Designer, documentation, and prerequisites needed for the associated kit. The installation process is very similar to the PSoC Programmer CD installation; however the overall process differs, as follows:

1. Load the CD. The kit installer program should run automatically. If not, double-click the autorun program to launch it.
2. On the kit installer, follow the prompts to begin the installation process. The first step will prompt to install PSoC Programmer.
3. The CyInstaller for PSoC Programmer opens and displays a series of steps to install PSoC Programmer and various drivers.
4. Continue to follow the prompts until PSoC Programmer and the drivers are installed, then resume with the kit installer program.
5. Continue the prompts to install the application IDE's, PSoC Creator or PSoC Designer. Please see the respective release notes for these tools for detailed instructions.

Device Driver Re-Installation

During installation of PSoC Programmer you are prompted to install the device drivers for PSoC Programmer. If you clicked "Cancel" originally, and now you want to re-install the drivers, please do the following:

Navigate to the PSoC Programmer root installation directory.

Open the *Drivers* folder and run the *driver.bat* file. This installs the PSoC Programmer drivers.

Further Reading

Documentation

Documentation is available in the PSoC Programmer Root Directory under Documents. The documents include:

- Programmer User Guide
- PSoC Programmer COM Interface Guide
- PSoC Programmer Command Line Interface Guide
- PSoC Programmer Example Code

Updates

Check for software updates to the Cypress PSoC development tools on the following web pages:

PSoC Software Tool	Link
PSoC Designer	http://www.cypress.com/go/psocdesigner
PSoC Creator	http://www.cypress.com/go/psoccreator
PSoC Programmer	http://www.cypress.com/go/psocprogrammer

Customer Issues

We recommend that customers who experience any issues with software or PSoC devices please contact customer support at the following phone numbers 1-800-541-4736 (ext. 8) or 1-425-787-4814.

Customers may also file a Tech Support Case at the following web page:



<http://www.cypress.com/MyAccount/index.cfm?id=7&source=header>

Silicon Errata

The most up-to-date versions of the silicon errata are available on the website at <http://www.cypress.com/psoc> under Related Documentation.

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