

PSoC Designer Release Notes

Version 5.1 Service Pack 2

Release Date: June 22, 2011

Thank you for your interest in PSoC® Designer™ 5.1 Service Pack 2. PSoC Designer is a complete Integrated Development Environment (IDE) for designing with PSoC1 devices. This release is the production release of version 5.1 Service Pack 2. It is also a complete release for new users.

This document describes new features and changes since the previous release.

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New Features, User Modules, and Device Support

The following section details the new features released with PSoC Designer 5.1 Service Pack 2. The parenthesis in each title represents the maturity of the respective designer content.

User Module Versioning

As a general note PSoC Designer 5.1 Service Pack 2 has the capabilities to support multiple versions of a user module so that you have the choice of continuing to use an older version or updating to the latest version. Please see the User Module Versioning section below for more details on the versioned User Modules for this release.

SmartSense User Module (Production)

SmartSense™ Auto-Tuning is easy to use and provides robust noise immunity. SmartSense tunes your CapSense system automatically at power up and monitors the system in real time to maintain optimum performance. SmartSense significantly reduces design cycle time by eliminating the tuning process from prototype to mass production. SmartSense allows maximum production flexibility by compensating for variations caused by using multiple manufacturing sites and vendors. Due to overwhelming customer requests, SmartSense auto-tuning User Module (UM) has been extended to the CY8C21x34B family in this release of PSoC Designer. This new User Module is based upon the market proven success of SmartSense released for the CY8C20xx6A and CY8CMBR2044 families.

SmartSense UM Support for CY8C21x34B Device Family (Production)

PSoC Designer 5.1 Service pack 2 now provides expanded SmartSense UM support for CY8C21x34B device families. The SmartSense user module will include custom developed algorithms that allow customer to implement the Cypress leading CapSense technology without the need for tuning customer systems.

Devices	Flash Size	RAM Size
CY8C21434B-24LTXI	8 KB	512 B
CY8C21434B-24LQXI	8 KB	512 B
CY8C21634B-24LTXI	8 KB	512 B
CY8C21534B-24PVXI	8 KB	512 B
CY8C21334B-24PVXI	8 KB	512 B
CY8C21234B-24SXI	8 KB	512 B

Ovation ONS II LP LPNAV (Beta)

The LPNAV user module provides a set of API's for using the Ovation II LP devices for optical Navigation. This user module allows for the user to easily configure, start, and stop the device's navigation engine and VCSEL control circuits. This provides a subset of the functionality that is present on the LaserNAV user module available for Ovation II devices.

Ovation ONS II LP (CYONSFN3050) PSoC Family (Production)

PSoC Designer 5.1 Service pack 2 now supports the Ovation II LP device family. The Ovation II LP devices are part of the Cypress laser navigation System-On-Chip.

Devices	Flash Size	RAM Size
CYONSFN3050-XW07	32 KB	512 B
CYONSFN3050-XW11	32 KB	512 B
CYONSFN3050-XWTH	32 KB	512 B

SmartSense_EMC User Module (Beta)

PSoC Designer now supports expanded SmartSense™ User Modules with frequency hopping capability. The SmartSense_EMC user modules tunes your CapSense system automatically at power up, monitors the system in real time to maintain optimum performance, and provides frequency hopping capacities to better ease CapSense board design. This new User Module is based upon the market proven success of SmartSense and will be released for the CY8C20xx6AS families.

SmartSense_EMC Device Support (CY8C20xx6AS) PSoC Family (Beta)

PSoC Designer 5.1 Service Pack 2 now supports the CY8C20xx6AS device family that supports the new SmartSense_EMC user modules.

Devices	Flash Size	RAM Size
CY8C20246AS-24LKXI	16KB	2KB
CY8C20346AS-24LQXI	16KB	2KB
CY8C20446AS-24LQXI	16KB	2KB
CY8C20466AS-24LQXI	32KB	2KB
CY8C20666AS-24LTXI	32KB	2KB
CY8C20646AS-24LTXI	16KB	2KB

Expanded LINS User Module Support on CY8C29xxx Devices

The LINS user module has been added to two automotive devices. The following devices now have the LINS user module available for designs.

Devices
CY8C29466-24PVXA
CY8C29466-12PVXE

Support for New Automotive Device (CY8C24x23A)

PSoC Designer now provides automotive grade device support for the CY8C24223A-24PVXA and CY8C24423A-24PVXA devices. User module device support for these automotive grade devices is the same as the base CY8C24223A and CY8C24423A devices.

Devices
CY8C24223A-24PVXA
CY8C24423A-24PVXA

Support for New Device Packages (CY7C638xx)

PSoC Designer now provides new device package support for the CY7C63803-LQXC devices.

Devices
CY7C63803-LQXC

PSoC Designer Live Landing Page

PSoC Designer 5.1 SP2 will support a live landing page. This landing page will be loaded every time the tool is started and will focus on delivering Software and PSoC 1 notices as well as training, general information, and content. The Live Start page will default to the existing text based landing page seen with PSoC Designer 5.1 SP1.1 and earlier releases if users who do not have internet access.

User Module Updates to Support Condensation and Sublimation

The following list of user modules has been updated to adhere to condensation and sublimation rules for ImageCraft Compilers:

User Modules
PLT
SmartSense_EMC
SmartSense

User Module Updates for ROMX Usage

The following list of user modules has been updated to adhere to the ROMX usage and compiler condensation and sublimation rules:

User Modules
CSD
CSD2x
USB
BootLdrUSBFS
BootLdrUSBFS_e
CSA_EMC
CSD
CSD2X
LINS
SmartSense (Krypton)
USBFS
PLT

Extended Documentation

PSoC Designer 5.1 Service Pack 2 release will support an extended documentation installer, "PSoC Designer 5.1 SP2 Extended Documentation". Users will be able to download the installer from the PSoC Designer web page. To install the extended documentation the user must first install the PSoC Designer 5.1 SP2. In this release the extended documentation will deliver limited foreign translated user module datasheets for Japanese and Chinese languages.

PSoC Designer Detecting Old Projects

PSoC Designer 5.1 SP2 has added capabilities to detect when opening old projects. PSoC Designer will recognize and notify users when they are opening any project that is not supported in the current release. For more information on which releases of PSoC Designer that is compatible please see the PSoC Designer Compatibility section below.

PSoC Designer Minimal Version

PSoC Designer now recognizes projects that were created on newer releases of the tool. For example, if users were to accidentally open a PSoC Designer 5.1 SP3 project on an the PSoC Designer 5.1 SP2 release, PSoC Designer will notify the user that this is not supported.

PSoC Designer Opening Read Only Projects/Files

In the past users will experience build issues when opening and modifying projects that contain read-only files. PSoC Designer has added support to notify users when they open any project that is set to read-only or any of the files contained in the project are set to read-only.

PSoC Designer Opening System Level Projects

With the PSoC Designer 5.1 release, and all subsequent service packs, the System Level Design support (PSoC Express) has been removed. PSoC Designer 5.1 SP2 will now notify users that they are attempting to open a system level design project which is no longer supported.

PSoC Designer Show Last Build Report

PSoC Designer has added a *Show Last Build Report* feature for all PSoC Designer projects. This feature will provide the output report from the previous build. Each time the user builds their project this report will be updated.

Bootloader Files in File Tree

Customers using a Bootloader User Module will now see the .DLD, .TXT, and .IIC files in the output folder in the workspace explorer. This gives easy access within the PSoC Designer environment to modify and view the files without having to navigate to the project folder.

Hot-Key for Wizards and Tuners

Users will now be able to launch all wizards and tuners using hot-key selections. The wizards will use the Ctrl+W,W sequence and the tuners will use Ctrl+W,U sequence.

Supported Tool Chains

ImageCraft Compiler (Standard and Pro versions)

ICCV7 for M8C STD version 7.04.

ICCV8 for M8C PRO version 8.04.01

User Module Versioning

This section details the user modules that were versioned in this release. For detailed listing and descriptions of the user module changes, see the version history tables in individual user module datasheets. Here is a complete list of all user modules that were updated:

User Module Name (Device Family)	
CSD(CY8C20066)	1.30
SmartSense_EMC	1.00
CSD2X(CY8C22045)	2.40
LINS (Stdum)	1.20
USBFS (Stdum)	1.80
BootLdrUSBFS (Stdum)	1.50
BootLdrUSBFS (Stdum)	1.30
CSA_EMC (Stdum)	1.20
CSD (Stdum)	1.60
CSD2X (Stdum)	1.20
CSDADC (Stdum)	1.30
SmartSense (Stdum)	1.30
PLT (Stdum)	1.30
SLCD (Stdum)	1.20
LPNAV (Stdum)	1.00

PSoC Designer Compatibility Matrix

PSoC Designer provides backwards compatibility for projects created between PSoC Designer 4.4 and PSoC Designer 5.1 SP2 through the project update mechanisms. The following table shows the project compatibility matrix:

Designer Release	4.2	4.3	4.4	5.0	5.1
4.2	Yes	Yes	Yes	No	No
4.3	-	Yes	Yes	No	No
4.4	-	-	Yes	Yes	Yes
5.0	-	-	-	Yes	Yes
5.1	-	-	-	-	Yes

“Yes” = Projects can open or be updated to.

“No” = Project is not supported.

“-” = Not applicable.

Open Source

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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
• Windows® XP (SP2 or higher), Vista, or Windows 7	✓	✓
Software Prerequisites **	Minimum	Recommended
• Microsoft Internet Explorer	7	
• .NET Framework	2.0 SP1	
• Adobe Reader (for viewing PDF Documentation)	6	9+
• Windows Installer	3.1	
• PSoC Programmer	3.13	

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

** Software Prerequisites – In order to install and run the PSoC Designer, you may also need to install additional software. The Cypress Installer guides you through the process if the additional programs are not already installed.

Update Instructions

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

Follow the instructions provided with the tool, as needed.

Installation Notes

The Installation process has changed from PSoC Designer 5.0. This was done to accommodate a Live Update capability and decrease download size. The installation process is a set of wizards that walk you through the installation process. You can install PSoC Designer and various prerequisites from the web. If you have issues with installing behind a firewall or on a machine with no internet connection, an ISO file is provided on the web for creation of your own CD. There are slight differences in the process, based on the medium used to install the software.

In order to install PSoC Designer, you need to first install PSoC Programmer. 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 connect your Cypress Programmers (Minipro1, Minipro3, etc) until all software installation is complete AND the PSoC Designer application is open.

How to Install PD5.1 Service pack 2 from the Web:

1. Download PSoCDesignerSetup.exe from the Cypress website.
2. PSoCDesignerSetup.exe will install CyInstaller for PSoC Designer.
3. CyInstaller will do a pre-requisite test, leading the user through the install process for missing prerequisites such as PSoC Programmer.
4. When the pre-requisite tests are passed, CyInstaller provides the user with the option to do a "Typical", "Complete" or "Custom" install.
 - a. Typical or Complete Install: Will install the latest available PSoC Designer 5.1 Service pack 2 release.
 - b. Custom Install: Will show the user all releases of PSoC Designer 5.1 Service pack 2 and install the selected release (for now there is just one).
5. Once the PD5.1 Service pack 2 release is downloaded, CyInstaller displays the EULA and other applicable licenses.
6. Once the install is complete, CyInstaller displays the finish screen with options to view the "Release Notes" and "Add Desktop Shortcut".

How to Install Using an ISO Image (Two Methods):

1. Create a CDROM using the ISO image:
 - a. Drag the ISO image onto the CD/DVD drive containing the CD/DVD. Right click on the CD/DVD drive and select "Burn" to create a CD/DVD for PD5.1 Service pack 2 installations.
 - b. Download MagicISO (<http://www.magiciso.com/download.htm>) and follow the tutorial to create a CD/DVD from ISO <http://www.magiciso.com/tutorials/miso-burnwin.htm>.

Note – To burn a CD with MagicISO, you need to pay \$30 for the full version. There are also Freeware versions and tools that allow you to mount the ISO file without burning a CD. This is described in step 2.
 - c. The installer, cyautorun.exe, launches once the CD/DVD is inserted in the CD/DVD drive. If not, double click cyautorun.
2. Install directly from an ISO image:
 - a. Download MagicISO (<http://www.magiciso.com/download.htm>) or other Virtual Drive creators (these are typically freeware) and create a virtual drive. Mount the ISO image on the drive from the "Mount" option in MagicISO.
 - For help on mounting and unmounting ISO images see <http://www.magiciso.com/tutorials/tutorials.htm>.
 - b. When you have mounted the ISO file, the installer should start.
 - if it does not start, double click on cyautorun.

- c. An alternative to using Virtual Drive creators is to download winrar (<http://www.rarlab.com/download.htm>) and open the ISO file in it. Then, extract and run "cyautorun.exe".
3. cyautorun.exe prompts you to install PSoC Designer 5.1 Service pack 2. Then follow steps 3-6 from the Web Installation instructions.

Customers with TrueTouch SDK R2 Installed:

Customers who have PSoC Designer Beta 2 and TrueTouch SDK R2 installed will be able to update to PSoC Designer 5.1 Service pack 2 production without any backward compatibility issues. Users will receive a notice via the CyInstaller update manager that a new version of PSoC Designer is available. Users will be able to update from the Beta 2 installation without impacting their TrueTouch SDK R2 installation. Customers will proceed with the Installation of PSoC Designer using CyInstaller.

System Level Design Users:

Customers who wish to continue developing system level projects will need to install PSoC Designer 5.0 SP6. System level development has been removed from PSoC Designer 5.1 Service pack 2. PSoC Designer 5.0 SP6 will be provided on the PSoC Designer web page or PSoC Designer archives page for any users interested in developing System Level projects. PSoC Designer 5.0 SP6 and PSoC Designer 5.1 Service pack 2 will coexist on the same machine allowing customers to continue developing System Level designs and continue designing new chip level designs with PSoC Designer.

Note to HI-TECH Compiler Users

You must manually update the *psoc.ini* file to add device support before you can compile projects that use the new devices. The HI-TECH *psoc.ini* file is found in the HI-Tech installation folder. The default location of the *psoc.ini* is here:

C:\Program Files\HI-TECH Software\HCPSOC\PRO\9.61\dat\psoc.ini

The default location of the replacement *psoc.ini* file that adds support for the new devices is here:

C:\Program Files\Cypress\PSoC Designer\5.1 Service pack 2\Common\CypressSemiDeviceEditor\Devices\psoc.ini

Known Problems and Limitations for PSoC Designer 5.1 Service Pack 2

In PSoC Designer 5.1 Service Pack 2, the Known Problems and Solutions (KPS) are included in a separate file. Please download it from the appropriate PSoC Designer directory, <http://www.cypress.com/?rID=41083>.

Further Reading

Documentation for PSoC Designer is provided with on-line Help, which you can open from the **Help** menu or by pressing [F1]. There are numerous other documents under the Help->Documentation menu, including:

- IDE User Guide
- PSoC Designer Release Notes
- PSoC Device Selector
- Updating the boot.tpl file (*update of BOOT.pdf*)
- Project Update help (*Version Update.pdf*)
- ICE User Guide

- C Language Compiler User Guide
- Math Libraries User Guide
- ImageCraft Release Notes
- Assembly Language Users Guide
- Hi-Tech to ImageCraft Migration guide
- User Module and device datasheets

Customer Filed Defects Fixed

The following table lists the customer filed defects that were fixed between the PSoC Designer 5.1 SP1.1 and PSoC Designer 5.1 Service pack 2 releases:

CY CDT #	Category	Title	Fix and Impact
40148	User Module Datasheet	DS:CHAR:PGA UM Datasheet Spec Update	Updated characterization data in the user module datasheet
64802	User Module	CYFI issues on and CY8C20xx6A devices.	IRQ pin configuration mechanism is corrected in CYFISNP for CY8C20xx6A devices.
69821	User Module Datasheet	DS:High/low level APIs misclassified in UART, RX8, and TX8 UMs	Datasheet update
73039	User Module Datasheet	DS:I2C Hardware Block Data Sheet	Added bit 2 transmit description to I2CHW UM datasheet
84048	User Module	encore III lock up issue, enablelock bit in bootResetIsr of USBTLDR is cleared	The "bootResetIsr" function in the "USB_Bt_loader.asm" files
89003	User Module	ADCINCVR gives wrong results if CalcTime is much higher than calculated	The "CompClock" and "CompGate" resources were restored in the ADCINCVR UM.
89046	User Guide	DOC:User module creation in PSoC Designer	PSoC Designer does not support custom user module creation
89810	Boot TPL File	Update Boot.tpl for CY8C22x45 and CY8C21x45 ECO	Updated Boot.tpl
91483	Debugger	StepASM doesn't update RAM window	Fixed refreshing "Memory", "Watch" and "Locals" debug windows during Step ASM
92809	User Module	PD 5.1 does not support all clock sources on the dual ADC	VC3 clock option restored for ADCs
93978	Compiler	Getting error message while compiling the project Japanese OS	Issue is resolved when changing the project folder to C drive

CY CDT #	Category	Title	Fix and Impact
94391	PSoC Designer	Compatibility of Designer 5.1 with IE5	PSoC designer is only compatible with Internet Explorer version 7 and above.
94609	Cloning	Error while cloning from CY7C639xx to CY7C638xx	Updated cloning to support cloning user modules, MBM, LED, MSTIMER, PITIMER12, SPIM
95257	User Guide	DOC:Private labels should not collide in public space	The Compiler User Guide was updated to state that Local labels that share the same name in different source files is not supported
95863	User Module Datasheet	DS: ADC10 Char Data in Proton	Updated the ADC10 UM datasheet with the correct characterization data
96514	User Module	Emerald CY8C28xxx I2CHW Issue	Updated the I2CHW user module to support two hardware I2C blocks in CY8C28xxx devices.
97023	Compiler Command Line	DOC:Command Line compilation Error -1073741819	Updated the Command Line Compiler.
97064	Devices	XTAL options not present for P1[0], P1[1] In PSoC Designer. Part no:: CY8C28xxx	Added XTAL options to the CY8C28xxx devices.
97510	User Module	LINS Wizard doesn't open on Japanese OS	Updates have been made on LINS user module version 1.10 and 2.00
98686	User Module	Infinite loop in CSA_ScanSensor causes firmware to hang	CSA_EMC_ScanSingleSensor API is updated.
99562	Devices	CY8C22x45 PORT3[4] to PORT3[7] Interrupt-mode Configuration Failure	Added bitfields to PRT3IC0 and PRT3IC1 registers in devices descriptions.
99957	User Module	Last capsense sensor stuck high in CY8C28xxx	ScanAllSensors API call at the end of Start API is added.
100948	User Module	CSD2X_SetIdacRange does not check RAM page before modifying bitmask	Update to SetIdacRange API
101893	User Module	'NODE POWER SUPPLY TYPE' in CYFISNP HUB User Module Parameter not needed	"Node Power Supply Type" property is removed
101899	User Module	Error in POWER SUPPLY TYPE in CYFISNP Node Parameter	Value lists of the "Power Supply Type" UM parameter are corrected
102473	User Module Datasheet	ADCINC datasheet provides incorrect reference voltage	User module datasheet has been updated

CY CDT #	Category	Title	Fix and Impact
102770	User Module	i2c doesn't work after cloning a project with csd2x and ezi2c UMs	Please run Wizard every time when you change UM version or MUM configuration.

For More Information Regarding PSoC Development Tools

For more information regarding PSoC Designer functionality and releases please review the user guide and release notes on the PSoC Designer web page:

www.cypress.com/go/psocdesigner

For more information regarding PSoC Programmer, supported hardware and COM layer please go to the PSoC Programmer web page:

www.cypress.com/go/psocprogrammer

For more information regarding Cypress's new and exciting PSoC3 and PSoC5 products and the new PSoC Creator development environment please go to the PSoC Creator web page:

www.cypress.com/go/psoccreator

For a list of PSoC Designer-related trainings, please see

<http://www.cypress.com/?rID=40543>



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