

Release Notes

CY4613 Development Kit

Release Date: July 1, 2014

Thank you for your interest in the CY4613 Development Kit. This document lists the installation requirements, software and hardware updates, and other information related to the kit.

System Requirements and Recommendations

Hardware/Operating System Requirements	Minimum	Recommended
Processor speed	1.5 GHz or faster	2 GHz Dual Core
RAM	512 MB	1 GB
Free hard drive space	1 GB	16 GB
Screen resolution	1024 × 768	1280 × 1024
USB	USB 3.0	USB 3.0
Windows XP (SP2 or later), Vista, 7, 8 or 8.1	✓	✓
Software Prerequisites	Minimum	Recommended
Microsoft Internet Explorer	7	10 or later
Adobe Reader (for PDF documents)	9.2	11.0.0.4 or later
Windows Installer	3.1	4.5 or later
.NET Framework	3.5 SP1	4 or later

To connect the CY4613 DVK to a BC v1.2-compliant mobile device with OTG support, refer to Chapter 3 of the **HX3 Kits User Guide** document.

Installation

Download *CY4613HX3DVKSetup.exe* from <http://www.cypress.com/go/CY4613>. Launch the EXE file and follow the steps in the installer window to install the required software.

To uninstall the software, go to **Start > Control Panel > Add or Remove Programs** and click the **Remove** button adjacent to the particular software. Follow the instructions to uninstall.

Updates

Visit <http://www.cypress.com/go/CY4613> for the latest downloads of software and documentation.

Limitations and Known Issues

1. The current consumed by a device connected to any of the downstream (DS) ports cannot exceed 2.1 A. When the current exceeds 2.1 A (overcurrent condition), the corresponding DS port gets disabled. To clear the error condition, remove the device which was causing the overcurrent condition, and reset the DVK.
2. The CY4613 board may take up to four seconds to start the processing when an overcurrent condition occurs on a DS port.
3. A 12-V/3-A AC-DC adapter is supplied with the kit to power the CY4613 board. The maximum current consumed by all devices connected to the USB 2.0/3.0 DS ports of the CY4613 board put together should be limited to 4.6 A. If the cumulative current consumption exceeds 4.6 A, HX3 and DS ports are powered off. To clear this error condition, reduce the cumulative current consumed by DS ports to less than 4.6 A, and then power cycle the DVK.
4. Pin-strap features are not supported on the CY4613 board. The CY4613 board loads the HX3 configuration setting from the EEPROM to configure HX3 (Part number: CYUSB3228-88LTXC) to support six DS ports instead the default eight. EEPROM configurations take priority over pin-strap settings.
5. DS1_GRN and DS2_GRN Port Status Indicator LEDs (Green LEDs for DS ports 1 and 2) are disabled on the CY4613 board.
6. A CY4613 board with values stored for string descriptors in the EEPROM may not get listed in the HX3 Blaster Plus tool running on a Windows 7 computer due to a Cypress driver-compatibility issue on Windows 7.

To recover from this condition, remove the string descriptors from the EEPROM by restoring the CY4613 board to the 'factory defaults' state. Refer to [Restoring CY4613 to factory default firmware](#). From then on, the PC that was used to restore the board to 'factory defaults' state will continue to list the board in the Blaster Plus tool even with string descriptors in the EEPROM.

Restoring CY4613 to factory default firmware

Follow the steps below to restore CY4613 board to the factory-default state using the Blaster Plus tool:

1. Power OFF the CY4613 board and then configure it for ROM firmware mode:
 - Install a jumper on pins 1 and 2 of the PIN_STRAP_EN (J4) jumper block.
 - Install a jumper on pins 2 and 3 of the ACA_DOCK (J2) jumper block.Refer to Table 3-4 of the HX3 Kits User Guide for jumper details.
2. Power ON the CY4613 board.
3. Start the Blaster Plus tool.
4. Bind the CYUSBHX3 driver as described in Section 4.3.2 of HX3 Kits User Guide.
5. Select the configuration type as Configuration C and set Shared Link Enable to 0 for DS3 and DS4.
6. Click the **Download Firmware + Settings...** button to write the modified settings to the EEPROM along with the custom firmware provided with the Blaster Plus tool, as shown in Figure 4-17 of the HX3 Kits User Guide.
7. Power off the CY4613 board.
8. Configure the CY4613 board for Custom firmware mode.
 - On the PIN_STRAP_EN (J4) jumper block, install the jumper on pins 2 and 3.
 - Keep the jumper on ACA_DOCK (J2) jumper block unchanged.



Refer to Table 3-4 of the HX3 Kits User Guide for jumper details.

Documentation

The kit documents are available in the following locations:

<Install directory>\CY4613 HX3 DVK\1.0\Documentation

<Install directory>\HX3 Blaster Plus\documentation

Note : On the Windows 32-bit platforms, the default *<Install Directory>* is *C:\Program Files\Cypress*, and on the Windows 64-bit platforms, it is *C:\Program Files(x86)\Cypress*.

Silicon Errata

To access the latest version of the silicon errata, refer to the HX3 datasheet available at <http://www.cypress.com/hx3>.

Technical Support

For assistance, go to <http://www.cypress.com/go/support> or contact our customer support at +1 (800) 541-4736 Ext. 2 (in the USA), or +1 (408) 943-2600 Ext. 2 (International).



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