



## Release Notes

### CY3686 EZUSB® NX2LP-Flex Development Kit

Release Date: August 10, 2012

Thank you for your interest in the EZ-USB® NX2LP-Flex Development Kit. This document lists installation requirements and describes software updates and changes.

#### Overview

The EZUSB NX2LP- Flex development kit provides complete hardware and software solutions to evaluate and develop NAND Flash USB mass storage applications using the NX2LP-Flex Controller. The NX2LP-Flex board supports interface between the [CY7C68013A](#), [CY7C68033](#), and [CY7C68034](#) devices and standard NAND flash devices.

The combination of revolutionary hardware and programming utility software provides the designer with complete development and manufacturing support. This development kit allows scalable testing and evaluation of the Cypress EZ-USB NX2LP-Flex NAND Flash Controller device (CY7C68033 and CY7C68034) with different NAND flash devices. The hardware platform supports between 1 to 8 single-device NAND flash chips, or 1 to 4 dual-device NAND flash chips for scalable density testing.

#### System Requirements and Recommendations

Hardware/Operating System Requirements	Minimum	Recommended
Pentium IV-class PC	1 GHz	> 1 GHz
RAM	64 MB	256 MB
Free hard drive space	150 MB	300 MB
Super VGA display	800 x 600	> 800 x 600
Windows®7, Windows XP (SP3), or Vista	✓	✓
Administrative privileges on the system	✓	✓
Software Prerequisites	Minimum	Recommended
USB Host Controller (full-speed or high-speed)	✓	✓
Microsoft Developers Studio Version	–	Version 6.0 or later
Keil uVision Version 8051 tools (to compile firmware examples)	2.38	
Adobe Reader (to view .PDF documents)	6	Later version
CD/DVD-ROM drive	✓	✓

#### Installation

To install, insert the kit CD/DVD into your PC's CD/DVD-ROM drive. Double click and run Setup.exe on the CD/DVD root directory to install the EZUSB Software. For further details, refer to the Quick Start Guide or the Kit User Guide (see the **Documentation** section for document locations).

#### Updates

The latest installer and documents for this kit are available at <http://www.cypress.com/go/CY3686>.



## NAND Programming Utility

The NX2LP NAND Programming Utility application can download vendor configuration parameters to an NX2LP NAND Memory device and automatically initialize it with FAT32 formatting. You can use this utility to program previously unprogrammed (that is, raw) NAND devices or to reprogram preconfigured NAND devices and enumerate as Windows Mass Storage Class devices.

The latest NAND flash compatibility list for NX2LP-Flex is available at <http://www.cypress.com/?rID=14817>.

## Documentation

Kit documents are located at <install directory>\USB\CY3686 NX2LP-FLEX DVK\<ver>\Documentation\

The following documents are available:

- CY3686 quick start guide
- CY3686 EZ-USB NX2LP-FLEX(TM) development kit guide
- NX2LP datasheet (CY7C68033-34)
- USB Mass storage Test Guide
- NX2LP-Flex™ USB to NAND Flash Firmware Design Notes-AN61347
- CY3686 EZ-USB NX2LP-FLEX DVK release notes (this document)

## Known Issues and Limitations

- NX2LP does not support MLC Flash Devices. NX2LP has a 1-bit ECC correction for every 256 bytes, which cannot handle MLC NAND. The MLC NAND requires a 4-bit ECC correction.
- The NANDMFG.exe tool was not tested on 4-K Page size NAND Flash. Support for new NAND parts of different page sizes will be updated on a regular basis. Refer to the updated NAND compatibility list at <http://www.cypress.com/go/CY3686>.

## Silicon Errata

No errata items

## Technical Support

For assistance, go to <http://www.cypress.com/go/support> or contact our customer support at +1(800) 541-4736 Ext. 8 (in the USA), or +1 (408) 943-2600 Ext. 8 (International).



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