EZ-USB NX2LP-Flex NAND Compatibility List

We have performed compatibility tests with several NAND flash devices that we could acquire from the market date-to-date using CY3686 EZ-USB NX2LP-Flex DVK. EZ-USB NX2LP-Flex's unique and flexible architecture allows it to be compatible with any density NAND device from any vendor.

Note: For the NAND flash to be tested with CY3686 DVK board, the following factors need to be considered.

- 1-bit ECC for every 256 bytes
- 48 pin TSOP
- SLC type NAND

Following is a list of NAND flashes we have tested. The list will grow over time as we procure more devices.

NAND Manufacturer	Part no.	Page size	Capacity
Samsung	K9K4G08U0M	2K	4Gbit
Samsung	K9K8G08U0M	2K	8Gbit
Samsung	K9K8G08U0A	2K	8Gbit
Samsung	K9F4G08U0D	2K	4Gbit
Samsung	K9WAG08U1D	2K	16Gbit*
Toshiba	TC58NVG0S3ETA00	2K	1Gbit
Toshiba	TC58DVG02D5TA00	2K	1Gbit
Toshiba	TC58NVG2S3ETAI0	2K	4Gbit
Spansion	S34ML01G1	2K	1Gbit
Spansion	S34ML04G1	2K	4Gbit
Hynix	H27U4G8F2D	2K	4Gbit

*K9WAG08U1D contains 2 dies internally of 8Gbit each. While adding the NAND parameters in the NAND Mfg utility, select Pages/Block = 64 and No. of Blocks = 8192.

To verify if the NAND flash is compatible, please do the following:

1. Visit www.cypress.com/support and under Tech support, create a case. Please register with your valid email ID to Cypress Technical support system and proceed to create a case.
2. If NAND is a new part, please ship the parts to the Cypress office that will be mentioned in the case. Cypress team will perform regression tests on the NAND parts to verify if the access is consistent for longer durations. Finally, the Cypress support staff will confirm in the CRM case if the NAND passes the internal regression tests.

Note:

- The above NANDs were tested on Windows OS platforms (XP, Vista, 7) in 32 and 64 bit configurations. Formatted NAND can be accessed irrespective of the OS on the host PC.

- FAT32 formatting for 4K Page size NAND parts is not supported for NandMfg tool but should be performed externally from Windows OS native format procedure.
- NandMfg tool used to program these NANDs works only on Windows platform and does not support Linux or any other commercial OS. Please request for the tool source code through Cypress technical support to develop an equivalent utility yourself on these platforms.