



Cypress Semiconductor Corporation, 198 Champion Court, San Jose, CA 95134. Tel: (408) 943-2600

PRODUCT INFORMATION NOTIFICATION

PIN: PIN145329

Date: September 03, 2014

Subject: Silicon Revision to Improve USB 3.0 Hub Controller (HX3 Family) Products

To: PCN ADMIN
CYPRESS
pcn_admin@cypress.com

Change Type: Minor

Product Information:

HX3 devices are the USB 3.0 Hub controller family of products which are compliant with the USB 3.0 specifications. HX3 products support Super-Speed (SS), Hi-Speed (HS), Full-Speed (FS), and Low-Speed (LS) on all the ports. Since March 2014, HX3 products are in mass-production with Rev. *A silicon.

The HX3 family products are revised with new silicon (Rev. *C) and certified by USB-IF (TID#330000060). Effective immediately, all HX3 products produced with Rev.*A silicon are migrated to the Rev.*C silicon. There are no changes to the ordering part numbers.

The following table lists the changes between Rev.*A silicon and Rev.*C silicon. The new silicon overcomes the datasheet errata applicable to the Rev.*A silicon. The revised datasheet for Rev.*C silicon is available at www.cypress.com/hx3 and it is attached with this notification.

No.	Items	Rev.*A	Rev.*C
1	USB-IF Compliance	Yes, but requires firmware on an external EEPROM	Yes, but doesn't require firmware on an external EEPROM. Firmware is integrated in the new silicon
2	Hub or Host connectivity to Upstream Port	FS Not Supported. SS, HS, LS Supported	SS, HS, FS, LS Supported
3	Suspend Power	90 mW	37.8 mW

Affected Part Numbers: 9

Item	Affected Marketing Parts
1	CYUSB3302-68LTXC
2	CYUSB3304-68LTXC
3	CYUSB3304-68LTXI
4	CYUSB3312-88LTXC
5	CYUSB3314-88LTXC
6	CYUSB3314-88LTXI
7	CYUSB3326-88LTXC
8	CYUSB3326-88LTXI
9	CYUSB3328-88LTXC

Implementation Date:

Effective immediately, all shipments of HX3 Part numbers are based on the Rev.*C silicon.

Anticipated Impact:

HX3 Rev.*C silicon products are drop-in compatible with HX3 Rev.*A silicon for all part numbers. HX3 Rev.*C silicon is also compatible with existing product from a functional, parametric, and quality performance perspective.

Since HX3 Rev.*C silicon passes USB-IF compliance (TID# 330000060) with the internal ROM firmware, customers can save on the bill-of-material (BOM) by eliminating the external EEPROM.

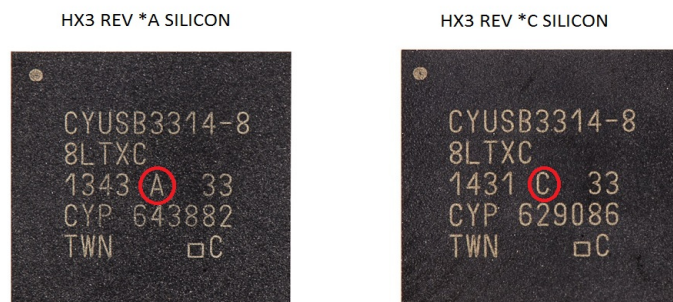
HX3 Rev.*C will continue to support external EEPROM. For legacy projects where an external EEPROM is used with HX3 Rev.*C products, customers must use the Cypress-provided Version B5 firmware. Firmware can be downloaded at www.cypress.com/hx3.

Qualification Status:

Rev.*C silicon products are qualified through a series of tests detailed in Qualification Test Plan (QTP) No. 121306. The QTP report can be found as an attachment to this notification or by visiting www.cypress.com and typing the QTP number in the keyword search window.

Method of Identification:

Marking on Row 3 of the HX3 package differentiates Rev.*C silicon from Rev.*A silicon as indicated in the below example.



Cypress maintains traceability of product to wafer level, including wafer fabrication location, through the lot number marked on the package.

Response Required:

This is an information only announcement. No response is required.

For additional information regarding this change, contact your local sales representative or contact the PCN Administrator at pcn_admin@cypress.com.

Sincerely,

Cypress PCN Administration