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PRODUCT BULLETIN UPDATE

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ISSUE DATE:	24-Mar-2016
NOTIFICATION:	16971A
TITLE:	UPDATE TO ERRATUM A-009620 FOR ESDHC I/F. FOR P1010/14, P204X/P3041, P50XX, T4X, T208X, T104X, T1024/23, C29X, 913X & B4X
EFFECTIVE DATE:	25-Mar-2016

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TV2-BLOCK-28NM

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AFFECTED CHANGE CATEGORIES

- ERRATA

DESCRIPTION OF CHANGE

This notification is for an update to the description and the workaround for Erratum **A-009620** for eSDHC interface.

The changes for the description is to cover the busy period condition after the last write block and to provide a workaround sequence for the busy period. This addition was omitted from the previous erratum release. The changes below are underlined.

A-009620: Data timeout error not getting set in case of command with busy response (R1b) as well as for busy period after last write block transfer

Description: In the event that a busy timeout occurs for a command with a busy response (e.g. R1b response) as well as busy period after the last write block, the eSDHC does not set the IRQSTAT[DTOE] bit or the IRQSTAT[TC]. Therefore, the current command transfer is never completed.

Impact: Software has to track the busy timeout error in this case.

Workaround:
Choose one of the following workarounds for CMD with busy:
1. In case of command with a busy response, implement a software timer to track the busy timeout error. If this software timer expires before the IRQSTAT[TC] event then consider it as data timeout error event (same as if IRQSTAT[DTOE] gets set) and execute the error recovery sequence for data timeout error specified in section 3.10.1 "Error Interrupt

Recovery" in SD Host specification 3.0.
OR
2. Don’t set the XFRTYP[RSP]=2’b11 for commands with busy response and poll the busy status of the card from the PRSSTAT[DLSL].

Workaround sequence for busy period after last write block is as follows:
1. After the command completion interrupt (IRQSTAT[CC]), wait for de-assertion of PRSTAT [WTA].
2. As soon as PRSTAT[WTA] is de-asserted, start the software timer and poll the busy signal (DAT0) using PRSTAT[DLSL[0]].
3. Wait for DAT0 signal to go high (which indicate transfer complete) or software timer expiry (which indicate data timeout error)
4. Issue soft reset for data (SYSCTL[RSTD]) if PRSTAT[DLA] bit is set
5. In case of data timeout error (detected in step 3) perform the error recovery

REASON FOR CHANGE

Notify customers of erratum release.

ANTICIPATED IMPACT OF PRODUCT CHANGE(FORM, FIT, FUNCTION, OR RELIABILITY)

No impact to form, fit, function or reliability.

NOTE:
THE CHANGE(S) SPECIFIED IN THIS NOTIFICATION WILL BE IMPLEMENTED ON THE EFFECTIVE DATE LISTED ABOVE. To request further data or inquire about the notification, please enter a Support Case. Be aware that after you select this link to enter your request, you must choose the topic "Product Change Notification" once on the Salesforce page.

For sample inquiries - please go to www.nxp.com

RELATED NOTIFICATION(S):

16971- Erratum A-009620 for eSDHC Interface. Families: P1010/14, P204x/P3041, P50xx, T4x, T208x, T104x, T1024/23, C29x, 913x & B4x

TO VIEW the GENERIC copy, click on the notification number above.

QUALIFICATION STATUS: N/A

QUALIFICATION PLAN:

N/A

RELIABILITY DATA SUMMARY:

N/A

ELECTRICAL CHARACTERISTIC SUMMARY:

N/A

CHANGED PART IDENTIFICATION:

N/A

ATTACHMENT(S):
External attachment(s) FOR this notification can be viewed AT:
16971A_PB_16971A_eSDHC_Erratum_A_009620.pdf