



PRODUCT AND PROCESS CHANGE NOTIFICATION

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ISSUE DATE: 16-Feb-2015
 NOTIFICATION: 16626
 TITLE: Update to Cold Fire MCF52xx and MF52xxx MCU Errata
 EFFECTIVE DATE: 17-May-2015

DEVICE(S)

MPN
KCF52235CVM60
MCF52110CAE66
MCF52110CAE80
MCF52110CAF80
MCF52110CEP66
MCF5211CAE66
MCF5211CEP66
MCF5211LCEP66
MCF5212CAE66
MCF5212CAE66R
MCF5212LCVM66
MCF5212LCVM80
MCF5213CAF66
MCF5213CAF66R
MCF5213CAF80
MCF5213LCVM66
MCF5213LCVM80
MCF5214CVF66
MCF5214CVM66
MCF5216CVF66
MCF5216CVM66
MCF52210CAE80
MCF52210CVM80
MCF52211CAE66
MCF52211CAE80
MCF52211CAF80
MCF52212AE50
MCF52212CAE50
MCF52213AE50
MCF52221CAE66
MCF52221CAF66

MCF52221CAF80
MCF52221CVM80
MCF52223CAF66
MCF52223CAF80
MCF52223CVM66
MCF52223CVM80
MCF52230CAF60
MCF52230CAL60
MCF52231CAF60
MCF52231CAL60
MCF52232AF50
MCF52232CAF50
MCF52233CAF60
MCF52233CAL60
MCF52233CVM60
MCF52234CAL60
MCF52234CVM60
MCF52235CAL60
MCF52235CVM60
MCF52236AF50
MCF52236CAF50
MCF5281CVM66
MCF5281CVM80
MCF5281CVMX1
MCF5281CVMX2
MCF5282CVF66
MCF5282CVF80
MCF5282CVFJX1
MCF5282CVFJX2
MCF5282CVFX1
MCF5282CVFX2
MCF5282CVM66
MCF5282CVM80
MCF5282CVM80J
MCF5282CVMJX1
MCF5282CVMJX2
MCF5282CVMX1
MCF5282CVMX2

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AFFECTED CHANGE CATEGORIES

- ERRATA

DESCRIPTION OF CHANGE

Errata summary:

"SECF015: Internal Flash Speculation Address Qualification Incomplete" description and workaround has been modified in the errata documentation for the MCF5213/2/1, MCF5211x, MCF5221x, MCF5222x, and MCF5223x products.

"SECF015: Internal Flash Speculation Address Qualification Incomplete" has been added to the errata list for the MCF5216/4 and MCF5282/1 products.

A new failure case for the SECF015 erratum has been discovered. Previously, Freescale had communicated that setting FLASHBAR[6] to disable address speculation mechanisms was an effective workaround, but we have found that this workaround does not capture all failing cases.

The expected occurrence of failures when FLASHBAR[6] is set is low, but customers who are using the FLASHBAR[6] workaround might need to change their application code to implement a different software workaround as recommended in the new SECF015 description in order to ensure that all possible failure cases are caught.

The updated errata documentation is attached to this notice and can be found at the following locations

MCF5213/2/1: <http://cache.freescale.com/files/32bit/doc/errata/MCF5213DE.pdf>

MCF5211x: <http://cache.freescale.com/files/32bit/doc/errata/MCF52110DE.pdf>

MCF5221x: <http://cache.freescale.com/files/32bit/doc/errata/MCF52211DE.pdf>

MCF5222x: <http://cache.freescale.com/files/32bit/doc/errata/MCF52223DE.pdf>

MCF5223x: <http://cache.freescale.com/files/32bit/doc/errata/MCF52235DE.pdf>

MCF5216/4: <http://cache.freescale.com/files/32bit/doc/errata/MCF5216DE.pdf>

MCF5282/1: <http://cache.freescale.com/files/32bit/doc/errata/MCF5282DE.pdf>

REASON FOR CHANGE

The errata documentation for the MCF5213/2/1, MCF5216/4, MCF5282/1, MCF5211x, MCF5221x, MCF5222x, and MCF5223x has been updated.

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

No changes have been made to the current production device. The errata describe existing conditions identified on current production devices. There are potential hardware and/or software implications to customers.

According to JEDEC Standard JESD46, lack of acknowledgement of this PCN within 30 days will be considered acceptance of change. To request further data or inquire about the notification, please enter a [Service Request](#).

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

QUAL DATA AVAILABILITY DATE: 22-Jan-2015

QUALIFICATION STATUS: COMPLETED

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:

[16626_MCF5213DE.pdf](#)

[16626_MCF5216DE.pdf](#)

[16626_MCF5282DE.pdf](#)

[16626_MCF52235DE.pdf](#)

[16626_MCF52110DE.pdf](#)

[16626_MCF52211DE.pdf](#)

[16626_MCF52223DE.pdf](#)
