



PRODUCT BULLETIN
Generic Copy

ISSUE DATE: 12-Feb-2013
NOTIFICATION: 15514
TITLE: MPC563xM 1M35Y ERRATA UPDATE
EFFECTIVE DATE: 13-Feb-2013

DEVICE(S)

MPN
SPC5632MF1MLQ40
SPC5632MF1MLQ60
SPC5632MF1MLQ80
SPC5633MF1MLQ40
SPC5633MF1MLQ60
SPC5633MF1MLQ60R
SPC5633MF1MLQ80
SPC5633MF1MLQ80R
SPC5633MF1MLU40
SPC5633MF1MLU60
SPC5633MF1MLU80
SPC5633MF1MMG40
SPC5633MF1MMG60
SPC5633MF1MMG80
SPC5634MF1MLQ40
SPC5634MF1MLQ60
SPC5634MF1MLQ60R
SPC5634MF1MLQ80
SPC5634MF1MLQ80R
SPC5634MF1MLQX1
SPC5634MF1MLQX2
SPC5634MF1MLQX3
SPC5634MF1MLU40
SPC5634MF1MLU60
SPC5634MF1MLU80
SPC5634MF1MLUX1
SPC5634MF1MLUX2
SPC5634MF1MLUX3

SPC5634MF1MMG40
SPC5634MF1MMG60
SPC5634MF1MMG80
SPC5634MF1MMGX1
SPC5634MF1MMGX2
SPC5634MF1MMGX3

AFFECTED CHANGE CATEGORIES

- DEVICE SPECIFICATION / ERRATA

DESCRIPTION OF CHANGE

The MPC563xM 1M35Y errata documentation has been updated to include additional errata that have been identified.

The following errata have been added:

err003521 DECFIL: Soft reset failures at the end of filtering

err004480 eQADC: Differential conversions with 4x gain may halt command processing

err005086 eQADC: Unexpected result may be pushed when Immediate Conversion Command is enabled

err005128 eQADC: Some channels do not meet SNR specification

err005498 Flash: Prefetch during program/erase operation causes system bus stop

err005640 ETPU2: Watchdog timeout may fail in busy length mode

err005642 ETPU2: Forced Instruction Limitations

err006026 DSPI: Incorrect Frame Generated in TSB Mode

The updated errata documentation is attached to this notice and can be found here:

http://www.freescale.com/webapp/sps/site/prod_summary.jsp?code=MPC563xM&nodeId=01624606C1427E&fpcsp=1&tab=Documentation_Tab

REASON FOR CHANGE

The errata documentation for MPC563xM 1M35Y 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. Erratum err005128 has potential hardware implications to customers. The workaround for erratum err005128 is as follows: "Assign the application SNR-sensitive signals to the analog channels that provide a better signal-to-noise ratio". Erratum err005128 has been fixed on device MPC563xM 2M35Y. The remaining errata include potential software implications to customers.

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 [Service Request](#)

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

QUAL DATA AVAILABILITY DATE: 30-Jan-2013

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:
[15514_MPC563XM_1M35Y.pdf](#)
