

Advance Information

MPC2605CE/D
Rev. 0.1, 5/2003

MPC2605 Integrated
Secondary Cache
Chip Errata



MOTOROLA
intelligence everywhere™

digitaldna™

This document details all known silicon errata for the MPC2605. Table 1 provides a revision history for this chip errata document.

Table 1. Document Revision History

Revision No.	Significant Changes
0	Initial release.
0.1	Removed the table, "Revision Level to Part Marking Cross-Reference." Removed the silicon revisions subheading from the table, "Summary of Silicon Errata and Applicable Revision."

This document pertains to all revisions and part markings of the MPC2605.

Table 2 summarizes all known errata and lists the corresponding silicon revision levels to which the errata applies.

Table 2. Summary of Silicon Errata and Applicable Revision

No.	Problem	Description	Impact	Work Around	Silicon Revision Levels
1	L2 Flush Corruption	Asserting ARTRY during a L2 Flush sequence will cause chip failure.	Memory corruption during an L2 Flush	None	ALL

Error No. 1: L2 Flush Corruption

Overview:

Asserting ARTRY during a L2 Flush sequence will cause chip failure.

Detailed Description:

An ARTRY asserted during the L2 Flush sequence will cause a corruption of memory write-back data and address.

Projected Impact:

Corrupted Memory

Work Around:

None.

Projected Solution:

When initiating a L2 Flush sequence, or during a L2 Flush sequence, all other 60x bus transactions should be ceased.

HOW TO REACH US:

USA/EUROPE/LOCATIONS NOT LISTED:

Motorola Literature Distribution
P.O. Box 5405, Denver, Colorado 80217
1-480-768-2130
(800) 521-6274

JAPAN:

Motorola Japan Ltd.
SPS, Technical Information Center
3-20-1, Minami-Azabu Minato-ku
Tokyo 106-8573 Japan
81-3-3440-3569

ASIA/PACIFIC:

Motorola Semiconductors H.K. Ltd.
Silicon Harbour Centre, 2 Dai King Street
Tai Po Industrial Estate, Tai Po, N.T., Hong Kong
852-26668334

TECHNICAL INFORMATION CENTER:

(800) 521-6274

HOME PAGE:

www.motorola.com/semiconductors

Information in this document is provided solely to enable system and software implementers to use Motorola products. There are no express or implied copyright licenses granted hereunder to design or fabricate any integrated circuits or integrated circuits based on the information in this document.

Motorola reserves the right to make changes without further notice to any products herein.

Motorola makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Motorola assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation consequential or incidental damages. "Typical" parameters which may be provided in Motorola data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. Motorola does not convey any license under its patent rights nor the rights of others. Motorola products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the Motorola product could create a situation where personal injury or death may occur. Should Buyer purchase or use Motorola products for any such unintended or unauthorized application, Buyer shall indemnify and hold Motorola and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that Motorola was negligent regarding the design or manufacture of the part.



Motorola and the Stylized M Logo are registered in the U.S. Patent and Trademark Office. digital dna is a trademark of Motorola, Inc. All other product or service names are the property of their respective owners. Motorola, Inc. is an Equal Opportunity/Affirmative Action Employer.

© Motorola, Inc. 2003