

Mask Set Errata

# Mask Set Errata for Mask 2M73Y

# Introduction

This report applies to mask 2M73Y for these products:

• MC68HC908AZ60A

The mask set is identified by a 5-character code consisting of a version number, a letter, two numerical digits, and a letter, for example 0J27F. All standard devices are marked with a mask set number and a date code.

Device markings indicate the week of manufacture and the mask set used. The date is coded as four numerical digits where the first two digits indicate the year and the last two digits indicate the work week. For instance, the date code "0301" indicates the first week of the year 2003.

Some MCU samples and devices are marked with an SC, PC, or XC prefix. An SC prefix denotes special/custom device. A PC prefix indicates a prototype device which has undergone basic testing only. An XC prefix denotes that the device is tested but is not fully characterized or qualified over the full range of normal manufacturing process variations. After full characterization and qualification, devices will be marked with the MC or SC prefix.

# SE17-MSCAN: MSCAN Extended ID Rejected if STUFF Bit Between ID16 and ID15

**Description:** For 32-bit and 16-bit identifier acceptance modes, an extended ID CAN frame with a stuff bit between ID16 and ID15 can be erroneously rejected, depending on IDAR0, IDAR1, and IDMR1.

Extended IDs (ID28-ID0) which generate a stuff bit between ID16 and ID15:

IDAR0	IDAR1	IDAR2	IDAR3
*****	***1111x	xxxxxxx	xxxxxxx

where x = 0 or 1 (don't care)

\* = pattern for ID28 to ID18 (see following).





Affected extended IDs (ID28 - ID18) patterns:

a)	xxxxxxxx01	exceptions:	0000000000 01111100001 xxxx1000001	except	11111000001
b)	xxxxx100000	exception:	01111100000	· · · <b>T</b>	
D)					
C)	xxxx0111111	exception:	00000111111		
d)	x0111110000				
e)	10000000000				
f)	11111111111				
g)	10000011111				

When an affected ID is received, an incorrect value is compared to the 2nd byte of the filter (IDAR1 and IDAR5, plus IDAR3 and IDAR7 in 16-bit mode). This incorrect value is the shift register contents before ID15 is shifted in (i.e. right shifted by 1).

Workaround: If the problematic IDs cannot be avoided, the workaround is to mask certain bits with IDMR1 (and IDMR5, plus IDMR3 and IDMR7 in 16-bit mode).

In general, using IDMR1 etc. 1111 xxx1, i.e. masking ID20,19,18,SRR,15, hides the problem.



# How to Reach Us:

Home Page: www.freescale.com

Web Support: http://www.freescale.com/support

#### **USA/Europe or Locations Not Listed:**

Freescale Semiconductor Technical Information Center, EL516 2100 East Elliot Road Tempe, Arizona 85284 +1-800-521-6274 or +1-480-768-2130 www.freescale.com/support

# Europe, Middle East, and Africa:

Freescale Halbleiter Deutschland GmbH Technical Information Center Schatzbogen 7 81829 Muenchen, Germany +44 1296 380 456 (English) +46 8 52200080 (English) +49 89 92103 559 (German) +33 1 69 35 48 48 (French) www.freescale.com/support

# Japan:

Freescale Semiconductor Japan Ltd. Headquarters ARCO Tower 15F 1-8-1, Shimo-Meguro, Meguro-ku, Tokyo 153-0064 Japan 0120 191014 or +81 3 5437 9125 support.japan@freescale.com

## Asia/Pacific:

Freescale Semiconductor China Ltd. Exchange Building 23F No. 118 Jianguo Road Chaoyang District Beijing 100022 China +86 10 5879 8000 support.asia@freescale.com

### For Literature Requests Only:

Freescale Semiconductor Literature Distribution Center 1-800-441-2447 or +1-303-675-2140 Fax: +1-303-675-2150 LDCForFreescaleSemiconductor@hibbertgroup.com Information in this document is provided solely to enable system and software implementers to use Freescale Semiconductors 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.

Freescale Semiconductor reserves the right to make changes without further notice to any products herein. Freescale Semiconductor makes no warranty, representation, or guarantee regarding the suitability of its products for any particular purpose, nor does Freescale Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any liability, including without limitation consequential or incidental damages. "Typical" parameters that may be provided in Freescale Semiconductor 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. Freescale Semiconductor does not convey any license under its patent rights nor the rights of others. Freescale Semiconductor 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 failure of the Freescale Semiconductor product could create a situation where personal injury or death may occur. Should Buyer purchase or use Freescale Semiconductor products for any such unintended or unauthorized application, Buyer shall indemnify Freescale Semiconductor 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 claims alleges that Freescale Semiconductor was negligent regarding the design or manufacture of the part.

RoHS-compliant and/or Pb-free versions of Freescale products have the functionality and electrical characteristics as their non-RoHS-complaint and/or non-Pb-free counterparts. For further information, see http://www.freescale.com or contact your Freescale sales representative.

For information on Freescale's Environmental Products program, go to http://www.freescale.com/epp.

 $\label{eq:FreescaleTM} Freescale TM and the Freescale logo are trademarks of Freescale Semiconductor, Inc. All other product or service names are the property of their respective owners.$ 

© 2011 Freescale Semiconductor, Inc.



Document Number: MSE908AZ60A\_2M73Y Rev. 0, 06/2011