

-reescale Semiconductor Mask Set Errata

MSE908AZ32A 0M68Z Rev. 0, 06/2011

Mask Set Errata for Mask 0M68Z

Introduction

This report applies to mask 0M68Z for these products:

MC68HC908AZ32A

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:

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.



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