

To our customers,

Old Company Name in Catalogs and Other Documents

On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

Renesas Electronics website: <http://www.renesas.com>

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Renesas Electronics Corporation

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RENESAS TECHNICAL UPDATE

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Product Category	Application specific IC	Document No.	TN-ASP-A019A/E	Rev.	1.00
Title	M66592/M66596 Usage Precautions of the Buffer memory initialization by the ACLRM bit	Information Category	Technical Notification		
Applicable Product	USB ASSP M66592/M66596	Lot No.	Reference Document	M66592 data sheet (REJ03F0111) M66596 data sheet (REJ03F0119)	

1. Phenomena

This precaution concerns the Buffer memory initialization by the ACLRM bit.

When the conditions described in [2. Occurring Conditions] below are met, the Interrupt status of the pertinent pipe cannot operate properly. Also, this precaution is independent on Peripheral mode / Host mode.

* For M66592, the operation of the peripheral mode corresponds.

2. Occurring Conditions

[1. Phenomena] described above may occur when condition 1 is present at the same time as condition 2 or 3.

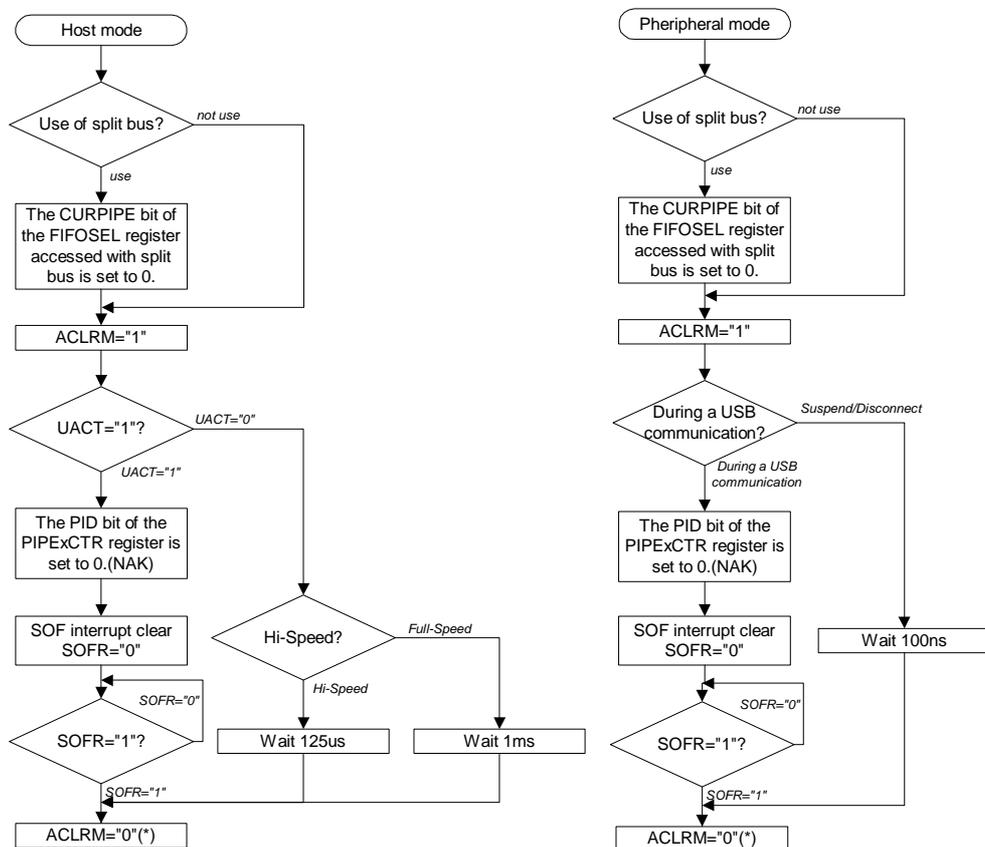
Condition 1: The ACLRM bit is set to "1" and then to "0".

Condition 2: During a USB communication (The SOF sending and receiving is included).

Condition 3: During an access by using Split bus.

3. Solutions

This phenomenon can be avoided by using the following software flowchart.



* Set ACRM bit to "0" within 125us after change from SOFR = "0" to SOFR = "1".