

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

Issued by: Renesas Electronics Corporation (<http://www.renesas.com>)

Send any inquiries to <http://www.renesas.com/inquiry>.

MESC TECHNICAL NEWS

No.M740-17-0004

7531 Group

Notice of Updated Timing Requirements of Reset Input

As for the following 8-bit MCU 7531 Group, the timing requirements of the reset input are updated.

1. Affected Devices

The affected devices which operates by the built-in ring oscillator after system is released from reset are shown in the table 1.

Table 1. Affected Devices

Group	Affected Devices		
7531 Group	M37531M4-XXXSP	M37531M4-XXXFP	M37531M4-XXXGP
	M37531M8-XXXSP	M37531M8-XXXFP	M37531M8-XXXGP
	M37531E4SP	M37531E4FP	M37531E4GP
	M37531E8SP	M37531E8FP	

2. Updated Timing Requirements of Reset Input

The updated timing requirements of reset input are shown in the table 2.

Table 2. Updated Timing Requirements of Reset Input
Timing Requirements

Symbol	Parameter	Power Source Voltage	Limits		Unit
			before update	after update	
			Min.	Min.	
tw(RESET)	Reset input "L" pulse width	4.0 to 5.5 V	2	15	μs
tw(RESET)	Reset input "L" pulse width	2.4 to 5.5 V	2	35	μs
tw(RESET)	Reset input "L" pulse width	2.2 to 5.5 V	2	45	μs

3. Future Specifications

As for the already issued specifications, the updated values are guaranteed by this information. As for the future issued specification, the contents will be updated.

Also, when the updated specifications are required, please contact Mitsubishi Electric Corporation or an authorized Mitsubishi Semiconductor product distributor.