

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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MESC TECHNICAL NEWS

No.M380-25-0006

3803/3804/3807/3850/3851/3886/7515/7516 Groups Notice of Updated Timing Requirements of Reset Input (Revision)

The contents of the news No. M380-24-0004 “3803/3804/3807/3850/3851/3886/7515/7516 Groups Notice of Updated Timing Requirements of Reset Input” are updated partly. Please replace the news No. M380-24-0004 with this news.

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

1. Affected Devices-1

The affected devices are shown in the table 1.

Table 1. Affected Devices-1

Group	Affected Devices		
3850 Group	M38503M2-XXXFP	M38503M2-XXXSP	M38503M2H-XXXFP
	M38503M2H-XXXSP	M38503M4-XXXFP	M38503M4-XXXSP
	M38503M4H-XXXFP	M38503M4H-XXXSP	M38504M6-XXXFP
	M38504M6-XXXSP	M38507M8-XXXFP	M38507M8-XXXSP
	M38503E4-XXXFP	M38503E4-XXXSP	M38503E4FP
	M38503E4SP	M38503E4SS	M38504E6-XXXFP
	M38504E6-XXXSP	M38504E6FP	M38504E6SP
	M38504E6SS	M38507F8FP	M38507F8SP
3851 Group	M38513M4-XXXFP	M38513M4-XXXSP	M38514M6-XXXFP
	M38514M6-XXXSP	M38517M8-XXXFP	M38517M8-XXXSP
	M38513E4-XXXFP	M38513E4-XXXSP	M38513E4FP
	M38513E4SP	M38513E4SS	M38514E6-XXXFP
	M38514E6-XXXSP	M38514E6FP	M38514E6SP
	M38514E6SS	M38517F8FP	M38517F8SP
3886 Group	M38867M8A-XXXHP	M38869M8A-XXXGP	M38869M8A-XXXHP
	M38869MCA-XXXGP	M38869MCA-XXXHP	M38869MFA-XXXGP
	M38869MFA-XXXHP	M38867SAHP	M38867E8A-XXXHP
	M38867E8AHP	M38869FFAGP	M38869FFAHP
	M38867E8AFS		
7515 Group	M37515M4-XXXHP	M37515E4-XXXHP	M37515E4HP
	M37515E4FS		
7516 Group	M37516M4-XXXHP	M37516M6-XXXHP	M37516M8-XXXHP
	M37516E6-XXXHP	M37516E6HP	M37516F8HP
	M37516E6FS		

●Updated Timing Requirements of Reset Input

The updated timing requirements of reset input for affected devices-1 are shown in the table 2.

Table 2. Updated Timing Requirements for Affected Devices-1
Reset Input Timing Requirements

	Symbol	Parameter	Min.	Unit
before update	tw(RESET)	Reset input “L” pulse width	2.0	μs
after update	tw(RESET)	Reset input “L” pulse width	20	XIN cycle

Note: For affected devices-1, reset input “L” pulse width is revised from the value described in the news No. M380-24-0004 “3803/3804/3807/3850/3851/3886/7515/7516 Groups Notice of Updated Timing Requirements of Reset Input”.

2. Affected Devices-2

The affected devices are shown in the table 3.

Table 3. Affected Devices-2

Group	Affected Devices		
3803 Group	M38034M4-XXXFP	M38034M4-XXXSP	M38034M4-XXXHP
	M38037M6-XXXFP	M38037M6-XXXSP	M38037M6-XXXHP
	M38037M8-XXXFP	M38037M8-XXXSP	M38037M8-XXXHP
	M38039MC-XXXFP	M38039MC-XXXSP	M38039MC-XXXHP
	M38039MF-XXXFP	M38039MF-XXXSP	M38039MF-XXXHP
	M38039FFFP	M38039FFSP	M38039FFHP
3804 Group	M38044M4-XXXFP	M38044M4-XXXSP	M38044M4-XXXHP
	M38047M6-XXXFP	M38047M6-XXXSP	M38047M6-XXXHP
	M38047M8-XXXFP	M38047M8-XXXSP	M38047M8-XXXHP
	M38049MC-XXXFP	M38049MC-XXXSP	M38049MC-XXXHP
	M38049MF-XXXFP	M38049MF-XXXSP	M38049MF-XXXHP
	M38049FFFP	M38049FFSP	M38049FFHP
3807 Group	M38072M2-XXXFP	M38073M4-XXXFP	M38077M8-XXXFP
	M38078MC-XXXFP	M38079MF-XXXFP	M38079MFD-XXXFP
	M38079SFP	M38073E4-XXXFP	M38073E4FP
	M38079EF-XXXFP	M38079EFD-XXXFP	M38079EFDFFP
	M38079EFFP	M38073E4FS	M38079EFFS
3886 Group	M38867M8A-XXXHP	M38869M8A-XXXGP	M38869M8A-XXXHP
	M38869MCA-XXXGP	M38869MCA-XXXHP	M38869MFA-XXXGP
	M38869MFA-XXXHP	M38867SAHP	M38867E8A-XXXHP
	M38867E8AHP	M38869FFAGP	M38869FFAHP
	M38867E8AFS		

●Updated Timing Requirements of Reset Input

The updated timing requirements of reset input for affected devices-2 are shown in the table 4.

Table 4. Updated Timing Requirements for Affected Devices-2

Reset Input Timing Requirements

	Symbol	Parameter	Min.	Unit
before update	tw(RESET)	Reset input “L” pulse width	2.0	μs
after update	tw(RESET)	Reset input “L” pulse width	16	XIN cycle

Note: For affected devices-2, reset input “L” pulse width is not revised from the value described in the news No. M380-24-0004 “3803/3804/3807/3850/3851/3886/7515/7516 Groups Notice of Updated Timing Requirements of Reset Input”.

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.