## Old Company Name in Catalogs and Other Documents

On April 1<sup>st</sup>, 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: <a href="http://www.renesas.com">http://www.renesas.com</a>

April 1<sup>st</sup>, 2010 Renesas Electronics Corporation

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

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Mask ROM number	
Mask Roll Hullibel	

## 740 FAMILY MASK ROM CONFIRMATION FORM SINGLE-CHIP MICROCOMPUTER M38073M4-XXXFP RENESAS TECHNOLOGY

	Date:	
sipt	Section head signature	Supervisor signature
Receipt	oignataro	oignataro

	Note:	Please	fill in	all items	marked	*
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*	Company name Customer		TEL (	)	uance nature	Submitted by	Supervisor	
**	Cuotomor	Date issued	Date:			Issu sigr		

## \* 1. Confirmation

Three EPROMs are required for each pattern if this order is performed by EPROMs. One floppy disk is required for each pattern if this order is performed by a floppy disk.

☐ Ordering by EPROMs

Specify the type of EPROMs submitted.

If at least two of the three sets of EPROMs submitted contain identical data, we will produce masks based on this data. We shall assume the responsibility for errors only if the mask ROM data on the products we produce differs from this data. Thus, extreme care must be taken to verify the data in the submitted EPROMs.

Checksum code for entire EPROM (hexadecimal notation)

EPROM type (indicate the type used)

	27250	Т	27542
	27256		27512
EPROM ac	ldress	EPROM ac	ddress
000016	Product name ASCII code : 'M38073M4-'	000016	Product name ASCII code : 'M38073M4-'
000F16 001016	WI36073W4*	000F16 001016	W350073W44
407F16 408016	data	C07F16 C08016	data
7FFD16 7FFE16 7FFF16	ROM (16K-130) bytes	FFFD16 FFFE16 FFFF16	ROM (16K-130) bytes

In the address space of the microcomputer, the internal ROM area is from address C08016 to FFFD16. The reset vector is stored in addresses FFFC16 and FFFD16.

- (1) Set the data in the unused area (the shaded area of the diagram) to "FF16".
- (2) The ASCII codes of the product name "M38073M4-" must be entered in addresses 000016 to 000816. And set the data "FF16" in addresses 000916 to 000F16. The ASCII codes and addresses are listed to the right in hexadecimal notation.

Address		Address	
000016	'M' = 4D16	000816	'–' = 2D16
000116	'3' = 3316	000916	FF16
000216	'8' = 3816	000A16	FF16
000316	'0' = 3016	000B16	FF16
000416	'7' = 37 <sub>16</sub>	000C16	FF16
000516	'3' = 3316	000D16	FF16
000616	'M' = 4D16	000E16	FF16
000716	'4' = 3416	000F16	FF16

Mask ROM number	
Mask KOM Hullibel	

## 740 FAMILY MASK ROM CONFIRMATION FORM SINGLE-CHIP MICROCOMPUTER M38073M4-XXXFP RENESAS TECHNOLOGY

We recommend the use of the following pseudo-command to set the start address of the assembler source program because ASCII codes of the product name are written to addresses 000016 to 000816 of EPROM.

EPROM type	27256	27512
The pseudo-command	*= △\$8000 .BYTE △'M38073M4–'	*= $\triangle$ \$0000 .BYTE $\triangle$ 'M38073M4–'

Note: If the name of the product written to the EPROMs does not match the name of the mask confirmation form, the ROM will not be processed.

responsibility for errors only if the ma treme care must be taken to verify the	sk ROM data on the products mask file in the submitted flor	mask file generating utility. We shall assume the we produce differs from this mask file. Thus, exppy disk. ormat. And the number of the mask files must be
File code		(hexadecimal notation)
Mask file name		.MSK (equal or less than eight characters)
mark specification form (80P6N for M3		package being ordered. Fill out the appropriate to the mask ROM confirmation form.
* 3. Usage conditions Please answer the following questions	about usage for use in our pro	oduct inspection :
(1) How will you use the XIN-XOUT oscillator	?	
Ceramic resonator	Quartz crystal	
External clock input	Other ( )	
At what frequency?	f(XIN) = MHz	
(2) Which function will you use the pins P41.	XCIN and P40/XCOUT as P41 a	nd P40, or XCIN and XCOUT ?
Ports P41 and P40 function	☐ XCIN and XCOUT function	n (external resonator)
* 4. Comments		

