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

April 1st, 2010 Renesas Electronics Corporation

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

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



Mask ROM number	
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740 FAMILY MASK ROM CONFIRMATION FORM SINGLE-CHIP MICROCOMPUTER M38227M8A-XXXFP/HP RENESAS TECHNOLOGY

	Date:	
Receipt	Section head signature	Supervisor signature

Note: Please fill in all items marked *.

		Company		TEL		ΦΦ	Submitted by	Supervisor
*	Customer	name		()	uanc natur		
		Date issued	Date:			Issi Sigi		

* 1. Confirmation

Specify the name of the product being ordered.

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.

Microcomputer name: ☐ M38227M8A-XXXFP ☐ M38227M8A-XXXHP

by floppy disk, do not

write data to the follow-

ing product name area.

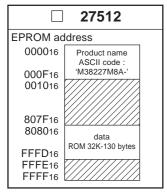
☐ Ordering by EPROMs

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)



vector is stored in addresses FFFC16 and FFFD16.
*When submitting data

(1) Set the data in the unused area (the shaded area of the diagram) to "FF16".

(2) The ASCII codes of the product name "M38227M8A-" must be entered in addresses 000016 to 000916. And set the data "FF16" in addresses 000A16 to 000F16. The ASCII codes and addresses are listed to the right in hexadecimal notation.

Address		
000016	'M' = 4D16	
000116	'3' = 3316	
000216	'8' = 3816	
000316	'2' = 3216	
000416	'2' = 3216	
000516	'7' = 3716	
000616	'M' = 4D16	
000716	'8' = 3816	

In the address space of the microcomputer, the internal

ROM area is from address 808016 to FFFD16. The reset

Address	
000816	'A' = 4116
000916	'-' = 2D16
000A16	FF16
000B16	FF16
000C16	FF16
000D16	FF16
000E16	FF16
000F16	FF16

4. Comments

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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 000916 of EPROM.

EPROM type	27512
The pseudo-command	*= △\$0000 .BYTE △'M38227M8A-'

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 material treme care must be taken to verify the	ask ROM data on the products e mask file in the submitted flop	mask file generating utility. We shall assume the we produce differs from this mask file. Thus, expy disk. brimat. And the number of the mask files must be
File code		(hexadecimal notation)
Mask file name		.MSK (equal or less than eight characters)
# 2. Mark specification Mark specification must be submitted	6). ly ROM data area (addresses 8 using the correct form for the	write data to the product name area (addresses 808016 to FFFD16). package being ordered. Fill out the appropriate M38227M8A-XXXHP) and attach it to the mask
* 3. Usage conditions		
Please answer the following questions	about usage for use in our pro	duct 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 P71	/XCIN and P70/XCOUT as P71 a	nd P70, or Xcin and Xcout ?
☐ Ports P71 and P70 function	☐ XCIN and XCOUT function	n (external resonator)