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)

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Mook DOM number	
Mask ROM number	

740 FAMILY MASK ROM CONFIRMATION FORM SINGLE-CHIP MICROCOMPUTER M38747M8T-XXXGP RENESAS TECHNOLOGY

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Note : Please	fill	in all	items	marked	
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*	Customer	Company name		TEL ()	uance nature	Submitted by	Supervisor
W.	Cuotomor	Date issued	Date:			Issi sigi		

* 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

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			(he	xade	cimal	notati	on)
Sub-ROM number for data link layer]
communication control circuit							

EPROM type (indicate the type used)

	27512		27101
EPROM a	ddress	EPROM ac	ddress
000016 000F16	Product name ASCII code : 'M38747M8T-'	000016 000F16	Product name ASCII code : 'M38747M8T-'
001016 001716 001816 807F16 808016 FFFD16 FFFE16 FFFF16	Sub-ROM number ASCII code data ROM (32K-130) bytes	001016 001716 001816 807F16 808016 FFFD16 FFFE16 1FFFF16	Sub-ROM number ASCII code data ROM (32K-130) bytes

In the address space of the microcomputer, the internal ROM area is from address 808016 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 "M38747M8T-" 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.
- (3) The ASCII codes of sub-ROM number for the data link layer communication control circuit used when submitted ROM is developed must be entered in addresses 001016 to 001716 of EPROM.

The ASCII codes are listed to the right.

(4) Set the data "FF16" in addresses 001816 to 001F16 of EPROM.

Address		Address	
000016	'M' = 4D16	000816	'T' = 5416
000116	'3' = 3316	000916	'–' = 2D16
000216	'8' = 3816	000A16	FF16
000316	'7' = 37 ₁₆	000B16	FF16
000416	'4' = 3416	000C16	FF16
000516	'7' = 37 ₁₆	000D16	FF16
000616	'M' = 4D16	000E16	FF16
000716	'8' = 3816	000F16	FF16

ASCII codes

'0' = 30 ₁₆	'8' = 38 ₁₆	'G' = 47 ₁₆	'R' = 52 ₁₆	$'Z' = 5A_{16}$
'1' = 31 ₁₆	'9' = 39 ₁₆	'H' = 48 ₁₆	'S' = 53 ₁₆	
'2' = 32 ₁₆	'A' = 41 ₁₆	$'K' = 4B_{16}$	'T' = 54 ₁₆	
'3' = 33 ₁₆	'B' = 42 ₁₆	'L' = 4C ₁₆	'U' = 55 ₁₆	
'4' = 34 ₁₆	'C' = 43 ₁₆	$M' = 4D_{16}$	'V' = 56 ₁₆	
'5' = 35 ₁₆	'D' = 44 ₁₆	'N' = 4E ₁₆	'W' = 57 ₁₆	
'6' = 36 ₁₆	'E' = 45 ₁₆	'P' = 50 ₁₆	'X' = 58 ₁₆	
$'7' = 37_{16}$	$F' = 46_{16}$	$'O' = 51_{16}$	$'Y' = 59_{16}$	

Mask	ROM	number	

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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.

We also recommend the use of the following pseudo-command to set the start address of the assembler source program because ASCII codes of the sub-ROM number are written to addresses 001016 to 001716 of EPROM.

EPROM type	27512	27101
The pseudo-command	*=△ \$0000 .BYTE △'M38747M8T–'	*=△ \$0000 .BYTE △'M38747M8T–'

Note: In the following cases, the ROM will not be processed.

- · If the name of the product written to the EPROMs does not match the name of the mask ROM confirmation form.
- · If the specified sub-ROM number is not released.

☐ Ordering by floppy disk

We will produce masks based on the mask files generated by the mask file generating utility. We shall assume the responsibility for errors only if the mask ROM data on the products we produce differs from this mask file. Thus, extreme care must be taken to verify the mask file in the submitted floppy disk.

• Precautions when using the mask file generating utility

Sub-ROM number for the data link layer communication control circuit is input as option information in this product. Input sub-ROM number eight characters by ASCII codes as follows.

However, in the following cases, the ROM will not be processed.

- · If the input sub-ROM number does not match the number of the mask ROM confirmation form.
- · If the specified sub-ROM number is not released.

Address_		ASCII codes
1016	The 1st character of sub-ROM number	'0' = 30 ₁₆
1116	The 2nd character of sub-ROM number	'1' = 31 ₁₆
1216	The 3rd character of sub-ROM number	'2' = 32 ₁₆
1316 _	The 4th character of sub-ROM number	'3' = 33 ₁₆
1416	The 5th character of sub-ROM number	'4' = 34 ₁₆
1516 _	The 6th character of sub-ROM number	'5' = 35 ₁₆ '6' = 36 ₁₆
1616	The 7th character of sub-ROM number	6' = 3016 7' = 3716
1716	The 8th character of sub-ROM number	'8' = 38 ₁₆
		'9' = 39 ₁₆

The submitted floppy disk must be 3.5-inch 2HD type and DOS/V format. And the number of the mask files must be 1 in one floppy disk.

File code		(hexadecimal notation)
Mask file name		.MSK (Alphanumeric characters eight digits)
Sub-ROM number for data link layer communication control circuit		(Alphanumeric characters eight digits)

Note: Do not put data in the product name area when ordering by the floppy disk.

* 2. Mark specification (Floppy disk and EPROM commonness)

Mark specification must be submitted using the correct form for the package being ordered. Fill out the 80P6S mark specification form and attach it to the mask ROM confirmation form.



4. Comments

Mask	ROM	number	

740 FAMILY MASK ROM CONFIRMATION FORM SINGLE-CHIP MICROCOMPUTER M38747M8T-XXXGP RENESAS TECHNOLOGY

Please answer the following questions	about usage for use in our product inspection:			
(1) How will you use the XIN-XOUT oscillator Ceramic resonator External clock input At what frequency?	? Quartz crystal Other () f(XIN) = MHz			
(2) How will you use the XCIN-XCOUT oscillar Ceramic resonator External clock input No use (when using as P40 a	☐ Quartz crystal ☐ Other ()			
At what frequency?	f(XCIN) = Hz			
(3) Which the internal clock division ratio will you use? (Plural answers are possible.) □				
(4) Will you use the data link layer communi Yes	cation control circuit ?			

(3/3)
Renesas Technology Corp.