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

740 FAMILY MASK ROM CONFIRMATION FORM SINGLE-CHIP MICROCOMPUTER M37151M8-XXXFP RENESAS TECHNOLOGY

	Date:	
Ħ	Section head signature	Supervisor signature
Receipt		
Re		

Note : Please fill in all items marked *.

*	Customer	Company name	TEL ()	ance ature	Submitted by	Supervisor
-		Date issued	Date :	lssu sign		

*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.

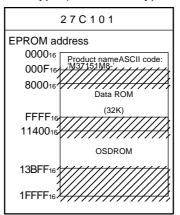
Ordering by EPROMs

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

(hexadecimal notation)

EPROM type (indicate the type used)



(1) Set "FF16" in the shaded area.

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(2) Write the ASCII codes that indicate the product name of "M37151M8-" to addresses 000016 to 000F16.

Addresses 000016 to 000F16 store the product name. ASCII codes 'M37151M8-' are listed on the right. The addresses and data are in hexadecimal notation.

Note: If the name of the product contained in the EPROMs does not match the name on the mask ROM confirmation form, the ROM processing is disabled. Please make sure the data is written correctly.

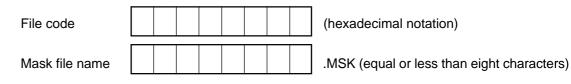
Address	
000016	'M' = 4D ₁₆
0001 16	' 3' = 33 ₁₆
000216	'7' = 37 16
000316	' 1 ' = 31 ₁₆
000416	'5' = 35 ₁₆
000516	' 1 ' = 31 ₁₆
000616	'M' = 4D16
000716	'8' = 38 16

Address	
000816	'–' = 2D16
000916	FF16
000A16	FF ₁₆
000B16	FF16
000C16	FF16
000D16	FF16
000E16	FF16
000F16	FF16

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.

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.



*2. Mark specification

Mark specification must be submitted using the correct form for the type of package being ordered. Fill the appropriate mark specification form (42P2R for M37151M8-XXXFP) and attach to the mask ROM confirmation form.

*3. Comments

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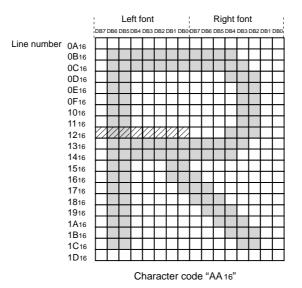
Font data must be stored in the proper OSD ROM address according to the following table.

OSD ROM address of character font data

OSD ROM address bit	AD16	AD15	AD14	AD13	AD12	AD11	AD10	AD9	AD8	AD7	AD6	AD5	AD4	AD3	AD2	AD1	AD0
Line number / Character code / Font bit	1	0	0		Line	e nurr	nber				Cha	racter	code	•			Font bit

Line number = 0A16 to 1D16

Character code = 0016 to FF16 (Do not set 7F16 and 8016.) Font bit = 0 : Left font 1 : Right font



Notes 1: The 80-byte addresses corresponding to the character code "7F16" and "8016" in OSD ROM are the test data storning area. Set "FF16" to the area (We stores the test data to this area and the different data from "FF16" is stored for the actual products.)

The test data storing area :

addresses 11000 16+(4+2n)X10016+FE16 to1100016+(5+2n)X10016+0116(n=0 to 19)

addresses 114FE 16 to 11501 16 addresses 116FE 16 to 11701 16 . addresses 138FE 16 to 1390116 addresses 13AFE 16 to 13B0116

 2: The character code "0916" is used for "transparent space" when displaying Closed Caption. Therefore, set "0016" to the 40-byte addresses corresponding to the character code "0916." The transparent space font data storing area : addresses 11000 16+(4+2n)X10016+1216 to 1100016+(4+2n)X10016+1316 (n=0 to 19)

```
addresses 11412 16 and 11413 16
addresses 11612 16 and 11613 16
.
addresses 13812 16 and 1381316
addresses 13A12 16 and 13A1316
```