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.



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740 FAMILY MASK ROM CONFIRMATION FORM SINGLE-CHIP MICROCOMPUTER M37151MA-XXXFP RENESAS

ſ		Date:	
	₹	Section head signature	Supervisor signature
	Receipt		
	æ		

Note: Please fill in all items marked *.

		Company		()		Submitted by	Supervisor	
*	Customer	name		()	ance ature		
·		Date issued	Date :			Issus		

*1. Confirmation

Specify the name of the product being ordered.

Three EPROMs are required for each pattern if this order is performed by EPROMs.

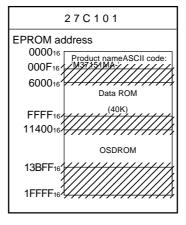
One floppy disk is required for each pattern if this order is performed by a floppy disk.

ı	Ordering	hv	EPROMs
	Ordering	υv	EPRONS

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)	2) Write the ASCII codes that indicate the product name of "M37151MA—" to addresses 000016 to 000F16.									
	Addresses 0000 ₁₆ to 000F ₁₆ store the produ	ct name.	Address		Address					
	ASCII codes 'M37151MA-' are listed on the	right.	000016	'M' = 4D ₁₆	000816	'-' = 2D ₁₆				
	The addresses and data are in hexadecimal	notation.	000116	'3' = 33 ₁₆	000916	FF ₁₆				
			000216	'7' = 37 ₁₆	000A16	FF16				
			000316	'1' = 31 ₁₆	000B ₁₆	FF ₁₆				
Note:	If the name of the product contained in the E	PROMs does	000416	'5' = 35 ₁₆	000C ₁₆	FF ₁₆				
	not match the name on the mask ROM confi	rmation form,	000516	'1' = 31 ₁₆	000D16	FF ₁₆				
	the ROM processing is disabled. Please m	ake sure the	000616	'M' = 4D ₁₆	000E16	FF ₁₆				
	data is written correctly.		000716	'A' = 4116	000F ₁₆	FF ₁₆				
care i	nsibility for errors only if the mask ROM on must be taken to verify the mask file in the ubmitted floppy disk must be 3.5-inch 2Hoppy disk.	e submitted fl	oppy disk.							
	File code Mask file name				cimal notation) qual or less than e	eight characters				
2. Mark	specification									
Mark	specification must be submitted using the	a correct form	for the type	of nackage h	eing ordered Fill	the appropriate				

*2

Mark specification must be submitted using the correct form for the type of package being ordered. Fill the appropriate mark specification form (42P2R for M37151MA-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

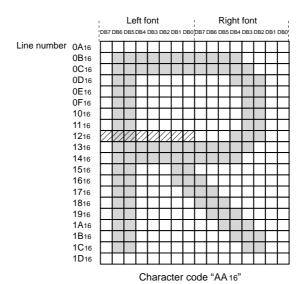
OSD ROM address bit	AD16	AD15	AD14	AD13	AD12	AD11	AD10	AD9	AD8	AD7	AD6	AD5	AD4	AD3	AD2	AD1	AD0
Line number / Character code / Font bit	1	0	0		Line number				Character code							Font bit	

Line number = 0A₁₆ to 1D₁₆

Character code = 0016 to FF16 (Do not set 7F16 and 8016.)

Font bit = 0 : Left font 1 : Right font

Example) The font data "60" (shaded area \bigcirc) of the character code "AA 16" is stored in address 1 0 0 1 0 1 0 1 0 1 0 1 0 0 0 2 =1255416.



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 13901 16 addresses 13AFE 16 to 13B01 16

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)×10016+1216 to 1100016+(4+2n)×10016+1316 (n=0 to 19)

addresses 11412 16 and 11413 16 addresses 11612 16 and 11613 16 . . addresses 13812 16 and 13813 16 addresses 13A12 16 and 13A13 16