

To our customers,

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## Old Company Name in Catalogs and Other Documents

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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: <http://www.renesas.com>

April 1<sup>st</sup>, 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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**7700 FAMILY MASK ROM CONFIRMATION FORM  
SINGLE-CHIP MICROCOMPUTER  
M3776AMFH-XXXGP  
RENESAS TECHNOLOGY**

Receipt	Date:	
	Section head signature	Supervisor signature

Note : Please fill in all items marked \*.

* Customer	Company name	TEL (      )	Issuance signature	Submitted by	Supervisor
	Date issued	Date:			

\* 1. Confirmation

Specify the name of the product being ordered.  
Three EPROMs are required for each pattern when ordering by EPROM.  
One floppy disk is required for each pattern when ordering by 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.

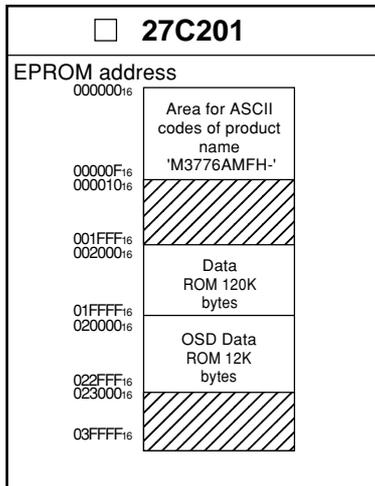
Checksum code for entire EPROM 

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 (hexadecimal notation)

Note: When ordering by floppy disk, do not enter any data in the product name area indicated at left(EPROM Type figure).

EPROM type



"M3776AMFH-" ASCII Codes  
(Addresses and data are in hexadecimal notation.)

Address		Address	
0000 <sub>16</sub>	'M' = 4D <sub>16</sub>	0008 <sub>16</sub>	'H' = 48 <sub>16</sub>
0001 <sub>16</sub>	'3' = 33 <sub>16</sub>	0009 <sub>16</sub>	'-' = 2D <sub>16</sub>
0002 <sub>16</sub>	'7' = 37 <sub>16</sub>	000A <sub>16</sub>	FF <sub>16</sub>
0003 <sub>16</sub>	'7' = 37 <sub>16</sub>	000B <sub>16</sub>	FF <sub>16</sub>
0004 <sub>16</sub>	'6' = 36 <sub>16</sub>	000C <sub>16</sub>	FF <sub>16</sub>
0005 <sub>16</sub>	'A' = 41 <sub>16</sub>	000D <sub>16</sub>	FF <sub>16</sub>
0006 <sub>16</sub>	'M' = 4D <sub>16</sub>	000E <sub>16</sub>	FF <sub>16</sub>
0007 <sub>16</sub>	'F' = 46 <sub>16</sub>	000F <sub>16</sub>	FF <sub>16</sub>

- (1) Set the data in the unused area (the shaded area of the diagram) to "FF<sub>16</sub>".
- (2) The ASCII codes of the product name "M3776AMFA-" must be entered in addresses 0000<sub>16</sub> to 0009<sub>16</sub>. And set the data "FF<sub>16</sub>" in addresses 000A<sub>16</sub> to 000F<sub>16</sub>. The ASCII codes and addresses are listed to the right in hexadecimal notation.

We recommend the use of the following pseudo-command to set the start address of the assembler source program because product name ASCII codes are written to addresses 0000<sub>16</sub> to 0009<sub>16</sub> of EPROM.

EPROM type	27C201
Pseudo-command	Δ.SECTIONΔ CPUNAME Δ.ORGΔ 0H Δ.BYTEΔ 'M3776AMFH-'

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.

Mask ROM number	
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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. Only one mask file should be stored on each floppy disk.

File code

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(hexadecimal notation)

Mask file name

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.MSK (equal or less than eight characters)

Note: When ordering by floppy disk, do not include the product name.

Do not enter any data into any area other than the following ROM data area.

ROM data area: address 002000<sub>16</sub> to 01FFFF<sub>16</sub>,  
address 020000<sub>16</sub> to 022FFF<sub>16</sub>.

\* 2. Marking specifications

The marking specifications must be submitted using the appropriate 100P6P marking specification form and attaching it to the mask ROM confirmation form.

\* 3. Shipping Specifications

Please select from the following shipping options.

(1) Standard Specifications

For all products other than ROM data, choose either the standard form or the comprehensive form.

- Standard Form (includes block diagram, product description and electrical characteristics)
- Comprehensive Form (includes the standard form as well as full explanations of CPU and peripheral circuit operations.)

(2) ROM Specifications

Choose shipping specifications with or without a ROM code list for each ROM.

- ROM code list required (standard)
- ROM code list not required.

Please note that both selections come with the same operational guarantee, therefore we suggest the standard ROM shipping specification.

\* 4. I2C-BUS

Will you be using the I2C-BUS function of the M3776AMFH-XXXGP?

- Yes
- No

\* 5. Use usage

Which of VCR or TVCR do you use the M3776AMFH-XXXGP with ?

- VCR
- TVCR

\* 6. Comments