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	

MASK ROM CONFIRMATION FORM SINGLE-CHIP MICROCOMPUTER M38K27M4L-XXXFP/HP RENESAS TECHNOLOGY

	Date:	
eipt	Section head signature	Supervisor signature
Receipt		

_					Note	: Please fill in all	items marked *
		0		TEL	0.0	Submitted by	Supervisor
* Customer	Company name		()	uance nature			
	Customer	Date issued	Date:		Issi sigi		

*	1.	Cor	nfirm	nation
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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: ☐ M38K27M4L-XXXFP ☐ M38K27M4L-XXXHP

☐ 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)

	27C256		27C512
EPROM ac	ldress	EPROM ac	ddress
000016 000F16 001016	Area for ASCII codes of the name of the product 'M38K27M4L-'	000016 000F16 001016	Area for ASCII codes of the name of the product 'M38K27M4L-'
407F16 408016 7FFD16 7FFE16 7FFF16	Data ROM (16K-130) bytes	C07F16 C08016 FFFD16 FFFE16 FFFF16	Data ROM (16K-130) bytes

In the address space of the microcomputer, the internal ROM area is from address C08016 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 "M38K27M4L-" 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		Address	
000016	'M' = 4D16	000816	'L' = 4C16
000116	'3' = 33 16	000916	'–' = 2D16
000216	'8' = 3816	000A16	FF16
000316	'K' = 4B16	000B16	FF16
000416	'2' = 32 16	000C16	FF16
000516	'7' = 37 16	000D16	FF16
000616	'M' = 4D16	000E16	FF16
000716	'4' = 3416	000F16	FF16

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 000F16 of EPROM.

de di tilo product fiamo die witten to addicesse secolo te con le di El Itomi								
EPROM type	27C256	27C512						
The pseudo-command	△*=△\$8000 △.BYTE △'M38K27M4L-'	\triangle *= \triangle \$0000 \triangle .BYTE \triangle 'M38K27M4L-'						

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.

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.

File code (hexadecimal notation)

Mask file name ...MSK (equal or less than eight characters)

* 2. Mark specification

Mark specification must be submitted using the correct form for the package being ordered. Fill out the appropriate mark specification form (64P6U for M38K27M4L-XXXFP, 64P6Q for M38K27M4L-XXXHP) and attach it to the mask ROM confirmation form.

Mask ROM number

MASK ROM CONFIRMATION FORM SINGLE-CHIP MICROCOMPUTER M38K27M4L-XXXFP/HP RENESAS TECHNOLOGY

	sage con lease ans	ditions wer the fol	lowing qı	uestions	s about u	sage for	use in	our produ	ıct insp	ection :		
(1) V	Vhich kind	d of XIN-XO Ceramic External o	resonato	r	cuit is us		•	oscillator)				
(2) V	Vhich freq	juency do y	ou use?									
	f(XIN) =	\Box 6	6MHz	□ 1:	2MHz		Other()		
	Syste	em Clock	= 🗆 6	6MHz	□ 81	MHz	□ 1	2MHz		Other()
	Φ =	:	□ 6	6MHz	□ 81	MHz	□ 1	2MHz		Other()
		rating suppose operating										
2	.7 3.0	3.3	3.6	4.0	4.5	5.0	5.25	5.5 (V)				
(4) V	Vhich ope	rating amb	ient temp	perature	do you	use?						
(Circle the	operating	tempera	ture ran	ge of use))						
-3 	30 -20	-10	0	10	20	30	40	50	60	70	80	90 (°C)

4. Special item (Indicate none if there is not specified item)

Thank you cooperation.