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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740 FAMILY MASK ROM CONFIRMATION FORM SINGLE-CHIP MICROCOMPUTER M38047M8-XXXSP/FP/HP RENESAS TECHNOLOGY

	Date :	
	Section head signature	Supervisor signature
Receipt		

Note: Please fill in all items marked *

		Company		TEL		e ë	Submitted by	Supervisor
ж	Customer	name		()	Janc Jatu		
		Date issued	Date:			lssu sigr		

×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.

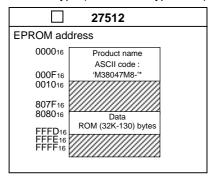
Microcomputer name: M38047M8-XXXSP M38047M8-XXXFP M38047M8-XXXHP

☐ 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)



*When submitting data by floppy disk, do not write data to the following product name area.

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 "M38047M8-" must be entered in addresses 000016 to 000816. And set the data "FF16" in addresses 000916 to 000F16.

The ASCII codes and addresses are listed to the right in hexadecimal notation.

ddress 000016 000116 000216 000316 000416 000516 000616	'M'=4D16 '3'=3316 '8'=3816 '0'=3016 '4'=3416 '7'=3716 'M'=4D16	Address 000816 000916 000A16 000B16 000C16 000D16	'-' = 2D16 FF16 FF16 FF16 FF16 FF16
000716	'8'=3816	000E16	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 000816 of EPROM.

EPROM type	27512
The pseudo-command	*=△\$0000 .BYTE△'M38047M8-'

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 ba the responsibility for errors Thus, extreme care must be The submitted floppy disk must be 1 in one floppy disk	s only if the mask Rope taken to verify the must be 3.5-inch 2	OM data on the mask file in the	e products we p e submitted flop	roduce differs from this n py disk.	nask file
Micro	computer name:	047M8-XXXSP	☐ M38047N	M8-XXXFP	☐ M38047M8-XXXHP)
	File code			(hexadecir	mal notation)	
	Mask file name			.MSK (equ	al or less than eight char	acters)
	Note:When submi	tting data by flongy	disk do not v	write data to the	a product name area (ac	ddraeea

Note: When submitting data by floppy disk, do not write data to the product name area (addresses 000016 to 000F16).

Write data to only ROM data area (addresses 808016 to FFFD16).

***2. Mark Specification**

Mark specification must be submitted using the correct form for the package being ordered. Fill out the appropriate mark specification form (64P4B for M38047M8-XXXSP, 64P6N-A for M38047M8-XXXFP) and attach it to the mask ROM confirmation form. For M38047M8-XXXHP, standard mark is printed.

Mask ROM number	

740 FAMILY MASK ROM CONFIRMATION FORM SINGLE-CHIP MICROCOMPUTER M38047M8-XXXSP/FP/HP RENESAS TECHNOLOGY

*3. Usage conditions	
Please answer the following questions about	it usage for use in our product inspection:
(1) How will you use the XIN-XOUT oscillator?	
☐ Ceramic resonator	Quartz crystal
External clock input	☐ Other ()
At what frequency?	f(XIN) = MHz
(2) Which function will you use the pins P41/XCI	N and P40/Xcout as P41 and P40, or XciN and Xcout?
Ports P4₀ and P4₁ function	☐ XCIN and XCOUT function (external resonator)
(3) What is the voltage of power supply (Vcc) ye	ou use?
Typ.=	V Max.=V
(4) What is the ambient temperature you use?	
Typ.= ©C Min.=	°C Max.=°C
 (5) Which main clock division ratio mode do you High-speed mode (f(φ)=f(XIN)/2) Slow-speed mode (f(φ)=f(XCIN)/2) 	u use? (Except program start timing)
(6) Which function do you use?	
☐ Timer1 ☐ Timer2	☐ TimerX ☐ TimerY ☐ TimerZ
☐ A/D converter ☐ Watchdog Timer	☐ PWM ☐ Serial I/O2
☐ Serial I/O1 (☐ Clock synchronous S☐ LED direct drive port	erial I/O mode
Thank you cooperation.	
×3. Comments	