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	
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740 FAMILY MASK ROM CONFIRMATION FORM SINGLE-CHIP MICROCOMPUTER M38049MC-XXXSP/FP/HP RENESAS TECHNOLOGY

ipt	Date :	
	Section head signature	Supervisor signature
Receipt	olgridia	o.g.i.a.a.

Note: Please fill in all items marked *

	Company	TEL		uance nature	Submitted by	Supervisor	
name		())				
	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.

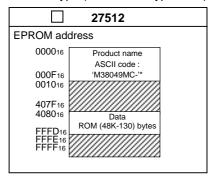
Microcomputer name: M38049MC-XXXSP M38049MC-XXXFP M38049MC-XXXHP

☐ 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 408016 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 "M38049MC-" 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.

Address		Address	
000016	'M'=4D16	000816	'-' = 2D16
000116	'3'=33 ₁₆	000916	FF16
000216	'8'=38 ₁₆	000A16	FF16
000316	'0'=30 ₁₆	000B16	FF16
000416	'4'=3416	000C16	FF16
000516	'9'=39 ₁₆	000D16	FF16
000616	'M'=4D16	000E16	FF16
000716	'C'=4316	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 000816 of EPROM.

EPROM type	27512
The pseudo-command	*=△\$0000 .BYTE △'M38049MC-'

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 dis We will produce ma the responsibility for Thus, extreme care The submitted flop must be 1 in one flo	asks bas or errors e must be py disk	only if the mask letaken to verify the must be 3.5-inch	ROM data ne mask fi	a on the le in the	products we presume submitted flopp	oduce differs from by disk.	n this mask file
Micro	ocomputer name:	☐ M380	049MC-XXXSP		38049M	IC-XXXFP	☐ M38049MC-	XXXHP
	File code					(hexadecim	nal notation)	
	Mask file na	ame [.MSK (equa	al or less than eig	ht characters)
		n submit	ting data by flopp	y disk, d	o not w	rite data to the	product name a	ırea (addresses

Write data to only ROM data area (addresses 408016 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 M38049MC-XXXSP, 64P6N-A for M38049MC-XXXFP) and attach it to the mask ROM confirmation form. For M38049MC-XXXHP, standard mark is printed.

Mask ROM	number	

740 FAMILY MASK ROM CONFIRMATION FORM SINGLE-CHIP MICROCOMPUTER M38049MC-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	IN 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 Min.=	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	u use? (Except program start timing)
☐ High-speed mode (f(φ)=f(XIN)/2)	\square Middle-speed mode (f(ϕ)=f(XIN)/8)
\square Slow-speed mode (f(ϕ)=f(XCIN)/2)	
(6) Which function do you use?	
☐ Timer1 ☐ Timer2 ☐ A/D converter ☐ Watchdog Timer	☐ TimerX ☐ TimerY ☐ TimerZ ☐ PWM ☐ Serial I/O2
	erial I/O mode Asynchronous Serial I/O(UART) mode
LED direct drive port	onal we mode
Thank you cooperation.	
×3. Comments	