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 M38C59MF-XXXFP/HP RENESAS TECHNOLOGY

	Date:	
eipt	Section head signature	Supervisor signature
Receipt		

Note: Please fill in all items marked *.

		Company		TEL	Φ Φ	Submitted by	Supervisor
*	Customer	name		()	uanc natur		
		Date issued	Date:		Issi		

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.

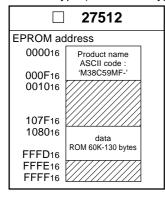
Microcomputer name: ☐ M38C59MF-XXXFP ☐ M38C59MF-XXXHP

☐ 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 108016 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 "M38C59MF-" 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	
000016	'M' = 4D16
000116	'3' = 3316
000216	'8' = 3816
000316	'C' = 4316
000416	'5' = 3516
000516	'9' = 39 ₁₆
000616	'M' = 4D16
000716	'F' = 4616

Address	
000816	'-' = 2D16
000916	FF16
000A16	FF16
000B16	FF16
000C16	FF16
000D16	FF16
000E16	FF16
000F16	FF16

Mask ROM number	
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740 FAMILY MASK ROM CONFIRMATION FORM SINGLE-CHIP MICROCOMPUTER M38C59MF-XXXFP/HP **RENESAS TECHNOLOGY**

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 △'M38C59MF-'

Note: If the name of the product written will not be processed.	to the EPROMs does not match	the name of the mask confirmation form, the ROM
responsibility for errors only if the treme care must be taken to verify	mask ROM data on the products the mask file in the submitted flop	mask file generating utility. We shall assume the we produce differs from this mask file. Thus, exopy disk. format. And the number of the mask files must be
File code		(hexadecimal notation)
Mask file name		.MSK (equal or less than eight characters)
# 2. Mark specificationMark specification must be submit	y ROM data area (addresses 108)	016 to FFFD16). e package being ordered. Fill out the appropriate 38C59MF-XXXHP) and attach it to the mask ROM
* 3. Usage conditions Please answer the following quest (1) How will you use the XIN-XOUT osci Ceramic resonator External clock input		roduct inspection :
At what frequency?	f(XIN) = MH	z
(2) Which main clock (XIN-XOUT) division	on ratio mode will you use?	
☐ Xin/8(In middle-speed m	ode) Xin/2(In high-speed m	ode) on-chip oscillator
(3) Which function will you use the pins	P60/XCIN and P61/XCOUT as P60	and P61, or XCIN and XCOUT?
☐ Ports P60 and P61 functi	ion	ion (external resonator)
(4) How range of operating power sour	ce voltage will you use?	
Maximum	V Minimum	V



Mask ROM number

740 FAMILY MASK ROM CONFIRMATION FORM SINGLE-CHIP MICROCOMPUTER M38C59MF-XXXFP/HP RENESAS TECHNOLOGY

(5) How range of operating ambient temparature will you use?
Maximum °C Minimum °C
(6) On which condition will you use LCD drive control circuit?
LCD drive control circuit ☐ Use ☐ Not use
Duty ratio
Dividing resistor for LCD power
Range of power source voltage(VL3) Maximum V Minimum V
Number of segment pins used
Vlotage Muliplier ☐ Use ☐ Not use
(7) Which timer mode will you use?
Timer X ☐ Timer mode ☐ Pulse output mode ☐ IGBT output mode ☐ PWM mode ☐ Event counter mode ☐ Pulse width measurement mode ☐ Not use
Timer Y Timer mode Period measurement mode Event counter mode
☐ Pulse width HL continously measurement mode ☐ Not use
Timer 3 ☐ Timer mode ☐ PWM mode ☐ Not use
Timer 4 ☐ Timer mode ☐ PWM mode ☐ Not use
Watchdog timer □ Use □ Not use
(8) Which serial I/O will you use?
Serial I/O1 ☐Clock synchronous ☐UART ☐Not use
Serial I/O2 ☐Use ☐ Not use
(9) On which condition will you A-D converter?
Number of analog input pins used
10-bit or 8-bit conversion switch
A-D conversion clock
A-D KEY Use Not use
* 4. Comments