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

740 FAMILY MASK ROM CONFIRMATION FORM SINGLE-CHIP MICROCOMPUTER M38503M2A-XXXSP/FP RENESAS TECHNOLOGY

	Date:	
Receipt	Section head signature	Supervisor signature

Note : Please fill in all items marked *.

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				TEL		Submitted by	Supervisor
	Company		•==	lice			
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			e product being ordered.				
			quired for each pattern if this order is ired for each pattern if this order is p				
UI	ie nopp	y disk is requ	ined for each pattern in this order is p	enonned by a noppy	uisk.		
Microo	compute	er name:	M38503M2A-XXXSP	M38503M2A-XXXF	Р		
	•						
	derina l	by EPROMs					
	-	-	ROMs submitted.				
	•	••	ee sets of EPROMs submitted conta	in identical data we	will produ	ice masks base	d on this data
			esponsibility for errors only if the ma				
			are must be taken to verify the data in				
		-,					
			Checksum code for entire EPR	ом		(hexadecimal n	otation)
						(,
EPR	OM typ	e (indicate th	e type used)				
		27512					
	OM add		In the address space of	the microcomputer	the inte	mal	
	00016	1	ROM area is from address	•			
	0018	Product name ASCII code :	vector is stored in address			5501	
	00F16	'M38503M2A-'			D10.		
00	01016						
	07F16						
E	08016	data					
	FD16	OM (8K-130) bytes					
	FE16 FF16						
			sed area (the shaded area of	Address	11 AD 10	Address	-
		n) to "FF16".			$A' = 4D_{16}$ $B' = 33_{16}$		A' = 4116 -A' = 2D16
			product name "M38503M2A-		b = 3316 b' = 3816		- = 2D16 FF16
			addresses 000016 to 000916.		5 = 3516 5' = 3516	_	FF16
		ne data "FF	16" in addresses 000A16 to		$3^{\circ} = 3016$		
	F16.				b' = 3316		FF16
The	ASCIL	codes and a	dresses are listed to the right				1110

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

000616

000716

'M' = 4D16

'2' = 3216

000E16

000F16

FF16

FF16

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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 000916 of EPROM.

EPROM type	27512
The pseudo-command	*= [△] \$0000 .BYTE [△] 'M38503M2A–'

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)	

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 E08016 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 (42P4B for M38503M2A-XXXSP, 42P2R for M38503M2A-XXXFP) and attach it to the mask ROM confirmation form.

Mask ROM number

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3. Usage conditions Please answer the following questions about 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 P21/XCIN and P20/XCOUT as P21 and P20, or XCIN and XCOUT ? Ports P21 and P20 function XCIN and XCOUT function (external resonator)
(3) What is the power-supply voltage you will use? Vcc = V
 (4) Which mode will you use for main clock division ratio? (You can check multiple boxes) high-speed mode middle-speed mode (except for the default mode after reset) low-speed mode
(5) Which function will you use? Timer A-D Converter Serial I/O1 WDT Serial I/O2 Pull up PWM

4. Comments