# Old Company Name in Catalogs and Other Documents

On April 1<sup>st</sup>, 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: <a href="http://www.renesas.com">http://www.renesas.com</a>

April 1<sup>st</sup>, 2010 Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (<a href="http://www.renesas.com">http://www.renesas.com</a>)

Send any inquiries to http://www.renesas.com/inquiry.



#### Qzrom Programming Confirmation Form SINGLE-CHIP 8-BIT MICROCOMPUTER M38503G4A-XXXSP/FP RENESAS TECHNOLOGY

RO	M number	
	Date:	
Receipt	Section head signature	Supervisor signature
Rec		

		•	/LI4L												
						Note	: Plea	se fill i	n all ite	ems ma	rked*.				
١,	Company name											e e	Sup	ervisor	
Customer	Telephone number					(	)					Issuance signature			
	Date issued	Date:													
The s And th	fy the name o ubmitted flopp he number of	y disk m he mas	nust be	e 3.5-ir	nch 2H pe 1 in	ID type one flo	ppy di	sk.	forma					ppy disk.	
Micro	ocomputer nai	ne:			M385	503G4 <i>A</i>	XXX-P	SP		M	38503G	i4A-X)	XXFP		
	File code										(he	xadec	imal notatior	n)	
	Mask file na	me									.MS	SK (eq	ual or less th	nan eight cha	aract
	No					1 data a Addres			ses C0	180 <sub>16</sub> to	FFDA <sub>16</sub>	, FFD	C <sub>16</sub> to FFFD	<sub>16</sub> ).	
No	tes (RENES		> Cus	stome	er)										

Either of the following data should be set to the ROM option data address (10<sub>16</sub>) of the mask file you have ordered. When you don't protect the ROM data, a third party can read out it.

When the ROM data is protected

**00**<sub>16</sub>

Address 10<sub>16</sub>

When the ROM data is not protected

FF<sub>16</sub> Address 10<sub>16</sub>

If you set except the above data or nothing at the ROM option data address (10<sub>16</sub>), We can't generate the ROM data. Then we request to submit the data again.

When Renesas ships QzROM write products, we write the data in the ROM option address (10 16) to the actual ROM code protect address (FFDB 16).

Therefore, set FF<sub>16</sub> to address FFDB<sub>16</sub> in the ROM data regardless of the presence or absence of a protect. When data other than FF<sub>16</sub> is set, we may ask that the ROM data be submitted again.

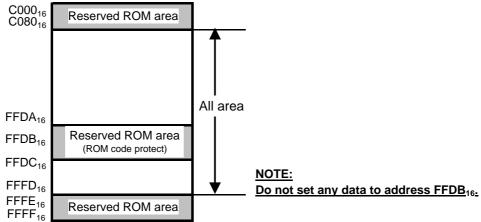
#### Note 3: Mark specification

You can appoint the mark by the mark specification form. Without submitting the mark specification form, your mark will be a standard mark. Please fill out the 42P4B MARK SPECIFICATION FORM for the M38503G4A-XXXSP, the 42P2R MARK SPECIFICATION FORM for the M38503G4A-XXXFP, and attach it when you submit the QzROM PROGRAMMING CONFIRMATION FORM. We can't deal with special font marking (customer's trademark etc.) in QzROM microcomputer.

ROM number	
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## Qzrom Programming Confirmation Form Single-Chip 8-bit Microcomputer M38503G4A-XXXSP/FP RENESAS TECHNOLOGY

#### ROM-Protection-Area



. Usage conditions  For our reference of new products, please reply to the following questions about the sage of the products you ordered.
(1) Which operation source main clock do you use?
Ceramic resonator Quartz-crystal oscillation
External clock input Other (
At what frequency? f(X <sub>IN</sub> )= MHz
(2) Which operation P21/X <sub>CIN</sub> and P20/X <sub>COUT</sub> do you use?
P20, P21 Port funtion X <sub>CIN</sub> -X <sub>COUT</sub> clock function Not use
(3) What is the voltage of power supply (V <sub>CC</sub> ) you 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 use? (Except program start timing)
High-speed mode $(f(\phi)=f(X_{IN})/2)$
Middle-speed mode $(f(\phi)=f(X_{IN})/8)$
Slow-speed mode $(f(\phi)=f(X_{CIN})/2)$

ROM number	
TOW Hamber	

## Qzrom Programming Confirmation Form Single-Chip 8-bit Microcomputer M38503G4A-XXXSP/FP RENESAS TECHNOLOGY

(6) Which function do yo	ou use?		
Timer1	Timer2 TimerX	TimerY	
A/D converter	Watchdog Timer PWM	Serial I/O2	
Serial I/O1 (	Clock synchronous Serial I/O mode	Asynchronous Serial I/O(UAR	RT) mode )
LED direct drive	port		
Thank you cooperation	n		

\*3. Comments