# 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.



DOM	
ROM number	

## Qzrom Programming Confirmation Form 8BIT SINGLE-CHIP MICROCOMPUTER M38D59GC-XXXFP/HP RENESAS TECHNOLOGY

	Date:	
	Section head	Supervisor
eipt	signature	signature
Receipt		
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Note: Please fill in all items marked\*.

		Company		TEL	φ φ	Supervisor
*	Customer	name		( )	uanc natui	
		Date issued	Date:		Iss sigis	

#### ×1. Confirmation

Specify the name of the product being ordered.

The submitted floppy disk must be 3.5-inch 2HD type and DOS/V format if this order is performed by a floppy disk. And the number of the mask files must be 1 in one floppy disk.

Microcomputer name:	□M38D59GC-XXXFP	□ M38D59GC-XXXHP
File code		(hexadecimal notation)
Mask file name		.MSK (equal or less than eight characters)

Note: Write data to only ROM data area (addresses 408016 to FFDA16, FFDC16 to FFFD16). ROM option data area: Addresses 1016

Notes (RENESAS → Customer)

#### 1 : ROM data confirmation request

QzROM programming will be processed based on the mask file generated by the mask file generating utility. Only in case when ROM data programmed in the actual mass produced product differs from that of above mentioned mask file, RENESAS takes the responsibility. There is no Engineering Sample, thus please confirm the ROM data at the receipt of the Initial product delivery.

Should you find any problem, please return immediately. Two weeks without technical error feedback towards RENESAS will automatically be regarded as acceptance of products.

#### 2: ROM option("MASK option" written in the mask file converter MM)

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 of protect area1(408016~EFFF16) is protected

When the ROM data of all area (408016~FFFD16) is protected

When ROM data is not protected

FE<sub>16</sub> Address 10<sub>16</sub>

00<sub>16</sub> Address 10<sub>16</sub>

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 ROM option address (10<sub>16</sub>) to the actual ROM code protect address (FFDB<sub>16</sub>).

Therefore, set FF16 to address FFDB16 in ROM data regardless of the presence or absence of a protect.

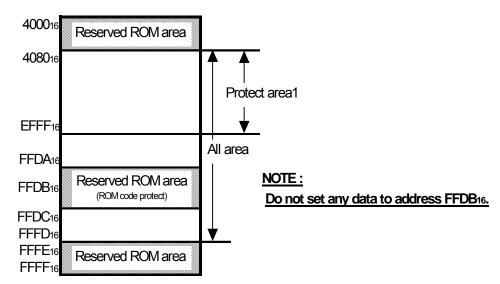
When data other than FF16 is set, we may ask that the ROM data be submitted again.

### 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 80P6N MARK SPECIFICATION FORM for the M38D59GC-XXXFP, the 80P6Q MARK SPECIFICATION FORM for the M38D59GC-XXXHP, 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.

## **QZROM PROGRAMMING CONFIRMATION FORM 8BIT SINGLE-CHIP MICROCOMPUTER** M38D59GC-XXXFP/HP **RENESAS TECHNOLOGY**

### ROM-Protection-Area



### ×2. Usage conditions

ducts you

For our reference of new products, please reply to the following questions about the usage of the procordered.
(1) Which operation source main clock do you use?  Ceramic resonator External clock input Quartz-crystal oscillation Other( On-chip oscillator
(2) Which operation source sub clock do you use?
Quartz-crystal oscillation — At what frequency?
☐ Other( ) f(Xcin)= kHz
(3) What is the voltage of power supply (Vcc) you use?  Typ.= V Min.= V Max.= V  (4) What is the ambient temperature you use?  Typ.= °C Min.= °C Max.= °C
(5) On which condition will you use OSCSEL?  ☐ OSCSEL=H ☐ OSCSEL=L
(6) Which main clock (XIN-XOUT) division ratio mode will you use?
(7) Which function will you use the pins P60/Xcin and P61/Xcou⊤ as P60 and P61, or Xcin and Xcou⊤?  ☐ P60,P61 ☐ Xcin,Xcou⊤
(2/3)

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(8) On which condition will you use LCD drive control circuit?
LCD drive control circuit ☐ Use ☐ Not use
Duty ratio
Range of power source voltage(VL3) Min.= V Max.= V
Number of segment pins used
Dividing resistor for LCD power External resistor Resistor value/piece = kΩ/piec
Voltage Multiplier ☐ Use ☐ Not use
(9) 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
☐ Pulse width HL continuously measurement mode ☐ Not use
Timer 3 ☐ Timer mode ☐ PWM mode ☐ Not use
Timer 4
(40) Which a rial 1/0 will are use 0
(10) Which serial I/O will you use?
Serial I/O1 ☐ Clock synchronous ☐ UART ☐ Not use  Serial I/O2 ☐ Clock synchronous ☐ Not use
Serial I/O2  Clock synchronous  Not use
(11) On which condition will you use A/D converter?
10bit or 8bit conversion switch ☐ 8bitA/D ☐ 10bitA/D ☐ Not use
A/D conversion clock ☐ ФSOURCE/2 ☐ ФSOURCE/8 ☐ On-chip oscillator
ADKEY Use Not use
(12) On which condition will you use Watchdog timer?
Count source ☐ XIN ☐ On-chip oscillator ☐ Not use
(13) Do you use the ROM correction function?
ROM correction function Use(Jump to RAM) Use(Jump to ROM) Not use
Thank you for cooperation.
*3. Comments