

To our customers,

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>.

ROM number	
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**QzROM PROGRAMMING CONFIRMATION FORM
SINGLE-CHIP 8-BIT MICROCOMPUTER
M37546G4-XXXSP/GP/HP
RENESAS TECHNOLOGY**

Receipt	Date:	
	Section head signature	Supervisor signature

Note : Please fill in all items marked *.

* Customer	Company name		Issuance signature	Supervisor
	Telephone number	()		
	Date issued	Date:		

*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: M37546G4-XXXSP M37546G4-XXXGP M37546G4-XXXHP

File code

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 (hexadecimal notation)

Mask file name

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 .MSK (equal or less than eight characters)

Note1: Write data to only ROM data area (addresses C080₁₆ to FFD3₁₆, FFD8₁₆ to FFDA₁₆, FFDC₁₆ to FFFD₁₆).
ROM option data area: Addresses 10₁₆

Note2: The function set ROM data 0 to 2 (address FFD8₁₆ to FFDA₁₆) must be set according to the data sheet.
The designated value must be set to those bits whose set value is fixed to 1 or 0.

Notes (RENESAS ---> Customer)

Note 1 : ROM data confirmation request

QzROM programming will be processed based on the mask file generated by the mask file generating utility. Only in the 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.

Note 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 (10₁₆) 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

00₁₆

When the ROM data is not protected

FF₁₆

If you set except the above data or nothing at the ROM option data address (10₁₆), 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 (10₁₆) to the actual ROM code protect address (FFDB₁₆).

Therefore, set FF₁₆ to address FFDB₁₆ in the 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.

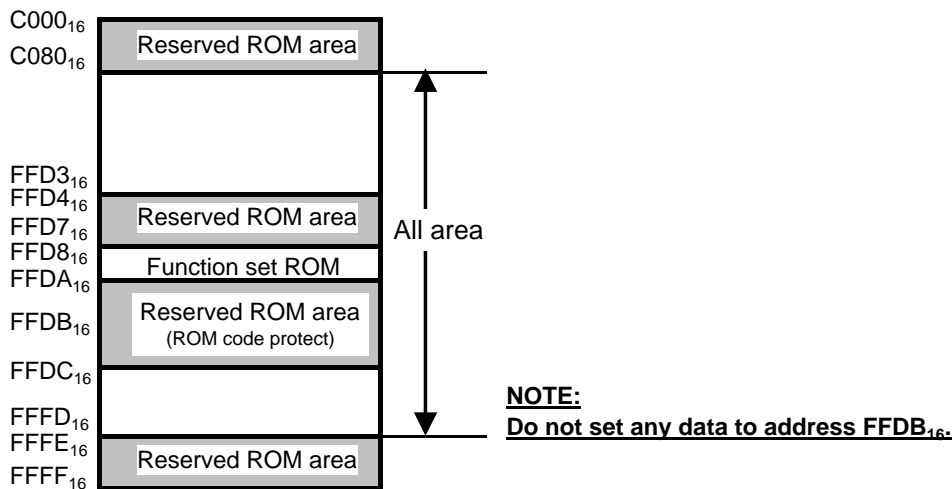
Note 3 : Mark specification

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 32P4B MARK SPECIFICATION FORM for the M37546G4-XXXSP, the 32P6B/U MARK SPECIFICATION FORM for the M37546G4-XXXGP, the 36PJW MARK SPECIFICATION FORM for the M37546G4-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.

ROM number	<input type="text"/>
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ROM-Protection-Area



*2. Usage conditions

For our reference of new products, please reply to the following questions about the usage of the products you ordered.

(1) Which operation source main clock do you use?

- | | |
|---|---|
| <input type="checkbox"/> Ceramic resonator | <input type="checkbox"/> RC oscillation |
| <input type="checkbox"/> Quartz-crystal oscillation | <input type="checkbox"/> On-chip oscillation |
| <input type="checkbox"/> External clock input | <input type="checkbox"/> Other (<input type="text"/>) |

At what frequency? $f(X_{IN}) =$ MHz

(2) What is the voltage of power supply (V_{DD}) you use?

Typ. = V Min. = V Max. = V

(3) What is the ambient temperature you use?

Typ. = °C Min. = °C Max. = °C

(4) Which clock division ratio mode do you use?

- | | |
|--|--|
| <input type="checkbox"/> Double-speed mode ($f(\phi) = f(X_{IN})$) | <input type="checkbox"/> High-speed mode ($f(\phi) = f(X_{IN})/2$) |
| <input type="checkbox"/> Middle-speed mode ($f(\phi) = f(X_{IN})/8$) | <input type="checkbox"/> Applied from on-chip oscillator |

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(5) Please reply to the following questions about timer function.

(i) Which timer do you use?

- Timer1 TimerX TimerA TimerB

(ii) Which count source of timer do you use?

- TimerX $f(X_{IN})/16$ $f(X_{IN})/2$ $f(X_{IN})$
- TimerA $f(X_{IN})/256$ $f(X_{IN})/128$ $f(X_{IN})/64$ $f(X_{IN})/32$]
- $f(X_{IN})/16$ $f(X_{IN})/2$ On-chip oscillator output
- TimerB $f(X_{IN})/256$ $f(X_{IN})/128$ $f(X_{IN})/64$ $f(X_{IN})/32$]
- $f(X_{IN})/16$ $f(X_{IN})/2$ TimerA underflow signal

(iii) Which operating mode do you use?

- TimerX Timer mode Pulse output mode]
- Event counter mode Pulse width measurement mode

(iv) Do you use the Output compare?

- Use () channel Not use

(v) Do you use the Input capture?

- Use Not use

(6) Do you use the Serial I/O?

- Use Not use
- Serial I/O1 (Clock synchronous Serial I/O mode Asynchronous Serial I/O(UART) mode)
 - Serial I/O2 (Clock synchronous Serial I/O mode Asynchronous Serial I/O(UART) mode)]

(7) Do you use the A/D converter?

- Use Not use

(8) Do you use the Watchdog timer?

- Use Not use

(9) Do you use the oscillation stop detection circuit?

- Use Not use

Thank you cooperation

*3. Comments