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	

QzROM PROGRAMMING CONFIRMATION FORM 8BIT SINGLE-CHIP MICROCOMPUTER M38D28G8-XXXFP/HP RENESAS TECHNOLOGY

	Date:	
	Section head signature	Supervisor signature
<u>e</u>	Signature	Signature
Receipt		
₾		

Note: Please fill in all items marked*.

		Company		TEL	ம் ம	Supervisor
*	Customer	name Date	Date:	()	ssuanc	
		issued	Date.		ISS Sign	

×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:	□M38D28G8-XXXFP	□M38D28G8-XXXHP
File code		(hexadecimal notation)
Mask file name		.MSK (equal or less than eight characters)

Note: Write data to only ROM data area (addresses 808016 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 (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 of protect area1(808016~EFFF16) is protected

When the ROM data of all area (808016~FFFD16) is protected

When ROM data is not protected

FE₁₆ Address 10₁₆

00₁₆ Address 10₁₆

Address 10₁₆

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 ROM option address (1016) to the actual ROM code protect address (FFDB16).

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

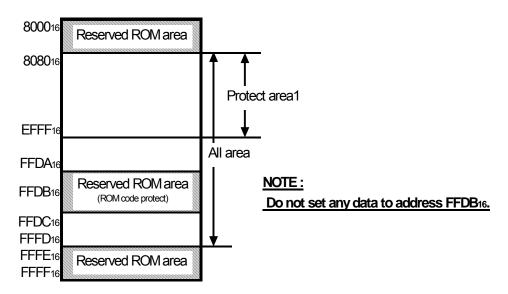
When data other than FF16 is set, we may ask that the ROM data be submitted again.

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 64P6U MARK SPECIFICATION FORM for the M38D28G8-XXXFP, the 64P6Q MARK SPECIFICATION FORM for the M38D28G8-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 M38D28G8-XXXFP/HP **RENESAS TECHNOLOGY**

ROM-Protection-Area



*2. Usage conditions

ucts you

9
For our reference of new products, please reply to the following questions about the usage of the proordered.
(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 Other() At what frequency? 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? ☐ In frequency/2 mode (f(Φ)=f(XIN)/2) ☐ In frequency/4 mode (f(Φ)=f(XIN)/4) ☐ In frequency/8 mode (f(Φ)=f(XIN)/8)
(7) Which function will you use the pins P61/Xcin and P62/Xcout as P61 and P62, or Xcin and Xcout? P61,P62 Xcin,Xcout

QzROM PROGRAMMING CONFIRMATION FORM 8BIT SINGLE-CHIP MICROCOMPUTER M38D28G8-XXXFP/HP RENESAS TECHNOLOGY

(8) On which condition will y	ou use LCD drive control circuit?		
LCD drive control circu	uit □Use □1	Not use	
Duty ratio	□4 □3	□ 2	
Range of power source	e voltage(VL3) Min.=	V Max.= V	
Number of segment pi	ns used		
Dividing resistor for LC	CD power Internal resistor	External resistor	
		Resistor value/piece=	kΩ/piece
LCD drive timing	☐TypeA	☐ТуреВ	
(0) \\(\frac{1}{2}\) (1 \(\frac{1}{2}\) (2 \(\frac{1}{2}\) (3 \(\frac{1}{2}\) (3 \(\frac{1}{2}\)) (4 \(\frac{1}{2}\))	0		
(9) Which timer mode will yo		TIODT - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
Timer X ☐ Timer	•	☐ IGBT output mode ☐ PWM mode	
	_	neasurement mode Not use	
Timer Y ☐ Timer	_ · · · · · · · · · · · · · · · · · · ·		
Timer 3 Timer	width HL continuously measureme mode ☐ PWM mode ☐ Not u		
Timer 4 Timer	<u> </u>		
Timer 4 🔲 Timer	mode www.mode	356	
(10) Which serial I/O will you	u use?		
Serial I/O1	synchronous	ot use	
Serial I/O2	synchronous	ot use	
(11) On which condition will	you use A/D converter?		
10bit or 8bit conversion			
A/D conversion clock		ΦSOURCE/8 On-chip oscillator	
ADKEY □Use	☐Not use		
(12) On which condition will	vou use Watchdog timer?		
Count source XI	, –	ot use	
(13) Do you use the ROM o			
ROM correction function	n Use(Jump to RAM)	Use(Jump to ROM) Not use	
Thank you for cooperation	on.		
*3. Comments			