R01MR0104EJ0201
Rev.02.01

ROM number	

RENESAS ELECTRONICS
SINGLE-CHIP 16-BIT MICROCOMPUTER
R5F2L3A8CNXXXFA
ROM PROGRAMMING CONFIRMATION FORM

Receipt	Date:	
	Section mgr signature	PIC signature

Note: Please fill in all items marked ✱.

✱ Applicant	Company Name	TEL ( )	Applicant signature	Submitted by	
	Date issued	Year / Month / Date Date:			

✱ 1. Mask file

Please kindly verify and confirm the mask file in the submitted CD-R prior to submission.
Please submit mask files on CD-R. And the number of the mask file must be 1 mask file per one CD-R.

Part Number ☐ R5F2L3A8CNXXXFA

File Code | | | | | | | | | (hexadecimal notation)

Mask file name | | | | | | | | | .MSK (no more than 8 characters)

✱ 2. Mask option

Set the mask option in the mask file generating utility as follows:

☐ Address : 10h ☐ Data : 01h

✱ 3. ROM data which must be set by user

Check the option function select registers (OFS, OFS2) and ID code areas to be set for appropriate values as ROM data.

☐ OFS register ☐ OFS2 register ☐ ID code areas

C A U T I O N :

Note 1 : ROM order of this product programs the Data Flash area.

Note 2 : ROM data confirmation request

ROM 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. 2 weeks without technical error feedback towards RENESAS will automatically be regarded as acceptance of products.

Note 3 : Mark specification

Please refer to Fig. 1 about mark specification.

R5F2L3A8CNyyyFA
XXXXXXX

yyy : ROM number
XXXXXXX : Lot number.

Fig. 1

ROM number

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Usage conditions

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

(1) What is the voltage of power supply (Vcc) you use?

Typ. = ☐ V Min. = ☐ V Max. = ☐ V

(2) What is the ambient temperature you use?

Typ. = ℃ Min. = ☐ ℃ Max. = ☐ ℃

(3) On which condition will you use Reset? (Plural answers are possible.)

☐ Hardware Reset ☐ Power-on reset Reset ☐ Voltage monitor 0 Reset
☐ Watchdog timer Reset ☐ Software Reset

(4) On which condition will you use Voltage monitor 0 Circuit?

☐ Use ☐ Not use

Voltage Detection 0 Level Select: ☐ 3.80V ☐ 2.85V ☐ 2.35V ☐ 1.90V

(5) On which condition will you use Voltage monitor 1 Circuit?

☐ Use ☐ Not use

Voltage Detection 1 Level Select:
☐ 2.20V ☐ 2.35V ☐ 2.50V ☐ 2.65V
☐ 2.80V ☐ 2.95V ☐ 3.10V ☐ 3.25V
☐ 3.40V ☐ 3.55V ☐ 3.70V ☐ 3.85V
☐ 4.00V ☐ 4.15V ☐ 4.30V ☐ 4.45V

(6) Will you use Voltage monitor 2 Circuit?

☐ Use ☐ Not use

(7) On which condition will you use High-speed clock?

High-Speed On-Chip Oscillator: ☐ Use ☐ Not use
Frequency: ☐ 40MHz ☐ 36.864MHz ☐ 32MHz
Division ratio: Divide-by-☐mode

XIN-XOUT Oscillates: ☐ Use ☐ Not use ☐ External clock input
Oscillator type: ☐ Crystal Oscillator ☐ Ceramic resonator ☐ Others( )
Frequency: f(XIN) = ☐ MHz
Load capacity: XIN side = ☐ pF XOUT side = ☐ pF
Internal feedback resistance: ☐ Use ☐ Not use
Oscillation stop detection: ☐ Use ☐ Not use

(8) On which condition will you use Low-speed clock?

☐ Use ☐ Not use ☐ Low-speed on-chip oscillator
Oscillator type: ☐ Crystal Oscillator ☐ Others( )
Frequency: f(XCIN) = ☐ kHz
Load capacity: XCIN side=☐ pF XCOUT side=☐ pF
Internal feedback resistance: ☐ Use ☐ Not use

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(9) On which condition will you use System clock division ratio?

☐ No division mode ☐ Divide-by-2 mode ☐ Divide-by-4 mode
☐ Divide-by-8 mode ☐ Divide-by-16 mode

(10) Which Power control mode will you use? (Plural answers are possible.)

☐ Wait mode ☐ Stop mode ☐ Power-off mode

(11) Will you use Flash memory?

CPU rewrite mode	☐ Use		☐ Not use
ROM code protect	☐ Use		☐ Not use
Low-Current-Consumption Read Mode	☐ Use	CPU clock frequency =_____kΩ	☐ Not use
Erase-suspend	☐ Use		☐ Not use
BGO function	☐ Use		☐ Not use

(12) Which timer mode will you use?

Timer RA ☐ Use ☐ Not use
Operation mode ☐ Timer mode ☐ Pulse output mode ☐ Event counter mode
☐ Pulse width measurement mode ☐ Pulse period measurement mode
Count source ☐ f1 ☐ f2 ☐ f8 ☐ fOCO ☐ fC32 ☐ fC

Timer RB ☐ Use ☐ Not use
Operation mode ☐ Timer mode ☐ Programmable one-shot generation mode
☐ Programmable waveform generation m ☐ Programmable wait one-shot generation mode
Count source ☐ f1 ☐ f2 ☐ f8 ☐ Timer RA under flow

Timer RC ☐ Use ☐ Not use
Operation mode ☐ Timer mode ☐ Input capture function ☐ Output compare function
☐ PWM mode ☐ PWM2 mode
Count source ☐ f1 ☐ f2 ☐ f4 ☐ f8 ☐ f32 ☐ fOCO40M
☐ fOCO-F ☐ TRCCLK

Timer RD ☐ Use ☐ Not use
Count ☐ Up count ☐ Down count
Operation mode ☐ Timer mode ☐ Input capture function ☐ Output compare function
☐ PWM mode ☐ Reset synchronous PWM mode ☐ Complimentary PWM mode
☐ PWM3 mode
Operation Clock ☐ f1 ☐ f2 ☐ f4 ☐ f8 ☐ f32 ☐ fC2
☐ fOCO40M ☐ fOCO-F ☐ TRDCLK

Timer RE ☐ Use ☐ Not use
Operation mode ☐ Output compare mode ☐ Real-time clock mode
Operation Clock ☐ f4 ☐ f8 ☐ f32 ☐ fC4

Timer RG ☐ Use ☐ Not use
Count ☐ Up count ☐ Down count
Operation mode ☐ Timer mode ☐ Input capture function ☐ Output compare function
☐ PWM mode
Operation Clock ☐ f1 ☐ f2 ☐ f4 ☐ f8 ☐ f32 ☐ fC2
☐ fOCO40M ☐ TRGCLKA ☐ TRGCLKB

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(13) On which condition will you use UART?

UART0	☐ Use	☐ Not use
Operation mode	☐ Clock synchronous serial I/O mode	☐ Clock non-synchronous serial I/O mode
UART1	☐ Use	☐ Not use
Operation mode	☐ Clock synchronous serial I/O mode	☐ Clock non-synchronous serial I/O mode
UART2	☐ Use	☐ Not use
Operation mode	☐ Clock synchronous serial I/O mode	☐ Clock non-synchronous serial I/O mode
	☐ I2C mode	☐ Multiprocessor communication function
Synchronous Serial Communication Unit (SSU)		☐ Use ☐ Not use
Operation mode	☐ Clock synchronous communication mode	☐ 4 lines bus communication mode
I2C bus Interface	☐ Use	☐ Not use
Operation mode	☐ I2C bus interface mode	☐ Clock synchronous serial mode
LIN Module	☐ Use	☐ Not use
	☐ Master mode	☐ Slave mode

(14) On which condition will you use DTC?

	☐ Use	☐ Not use
Transfer mode	☐ Normal mode	☐ Repeat mode
Transfer times = ☐		

(15) On which condition will you use A/D converter?

	☐ Use		☐ Not use	
A/D input pin	Number of A/D input pins used = _____ pins			
Conversion mode	☐ 8bit A/D		☐ 10bit A/D	
A/D clock source	☐ f1		☐ fOCO-F	
Division ratio	☐ No division	☐ In frequency/2	☐ In frequency/4	☐ In frequency/8
A/D Trigger	☐ Software	☐ Timer RD	☐ Timer RC	☐ External Trigger
	☐ Not use			
A/D Operation mode	☐ Single mode	☐ Repeat mode0	☐ Repeat mode1	
	☐ Single sweep mode	☐ Repeat sweep mode	Sweep pin = _____ pins	
Disconnection-detection ass	☐ Use		☐ Not use	

(16) Will you use D/A converter?

	☐ Use	☐ Not use

(17) On which condition will you use ComparatorB?

Comparator B1	☐ Use	☐ Not use
Digital Filter	☐ Use	☐ Not use
Comparator B3	☐ Use	☐ Not use
Digital Filter	☐ Use	☐ Not use

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(18) On which condition will you use LCD Drive Control Circuit?

	☐ Use		☐ Not use	
Usage of LCD pins	Number of common pins used =_____pins		Number of segment pins used =_____pins	
Bias	☐ 1/2	☐ 1/3	☐ 1/4	
LCD panel waveform	☐ Segment panel waveform		☐ Dot matrix panel waveform	
Usage of LCD panel	☐ 5V faction	☐ 3V faction	☐ Others( )	
LCD Clock Source	☐ f32		☐ fC-LCD	
Division ratio	☐ In frequency/2	☐ In frequency/4	☐ In frequency/8	☐ In frequency/2
	☐ In frequency/2	☐ In frequency/2	☐ In frequency/2	

☐ Use External division resister

Range of LCD power supply voltage(VL4) Min. =_____V Max. =_____V

Division resistance One Resister Value =_____kΩ

☐ Use Internal voltage multiplier circuit

Voltage of VL1 ☐ External input voltage =_____V ☐ Internally-generated voltage accuracy

Capaciter for voltage mu CL1-CL2 =_____F VL4,VL3,VL2,VL1=_____F

Data display mode ☐ Blinking display ☐ Reversing display ☐ Not use

Frame frequency =_____Hz

(19) On which condition will you use Watchdog Timer?

	☐ Use		☐ Not use	
Count Source	☐ CPU clock	☐ Low-speed on-chip oscillator clock for the watchdog timer clock		
Division ratio of the prescaler				
	☐ 1/2	☐ 1/16	☐ 1/128	
Watchdog timer underflow period set bit				
	☐ 03FFh	☐ 0FFFh	☐ 1FFFh	☐ 3FFFh
Watchdog timer refresh acknowledgement period set bit				
	☐ 25%	☐ 50%	☐ 75%	☐ 100%

Watchdog timer start select bit

☐ Watchdog timer automatically starts after reset

☐ Watchdog timer is stopped after reset

Count source protection mode after reset select bit

☐ Count source protection mode enabled after reset

☐ Count source protection mode disabled after reset

Thank you for your cooperation.