



### R5F213J6TNNP#YC Information

Heisener.com

Part Number R5F213J6TNNP#YC

Manufacturer Renesas Electronics America

Category Integrated Circuits (ICs)
Embedded - Microcontrollers

**Description** IC MCU 16BIT 32KB FLASH 40HXQFN

Package 40-XFQFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

For Reference Only

Website: https://www.heisener.com
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# **R5F213J6TNNP#YC Specifications**

Manufacturer Part Number         R5F213I6TNNP#YC           Manufacturer         Renesas Electronics America           Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         40-XFQFN Exposed Pad           Series         R8C/3x/3JT           Core Processor         R8C           Core Size         16-Bit           Speed         20MHz           Connectivity         PC, UART/USART           Peripherals         POR, PWM, Voltage Detect, WDT           Number of I/O         31           Program Memory Size         32KB (32K x 8)           Program Memory Type         FLASH           EEPROM Size         4K x 8           RAM Size         2.5K x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 5.5 V           Data Converters         A/D 12x10b           Oscillator Type         Internal           Operating Temperature         -20°C ~ 85°C (TA)           Mounting Type         -           Package / Case         40-XFQFN Exposed Pad           Supplier Device Package         40-HXQFN (5x5)	*	
Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         40-XFQFN Exposed Pad           Series         R8C/3x/3JT           Core Processor         R8C           Core Size         16-Bit           Speed         20MHz           Connectivity         PC, UART/USART           Peripherals         POR, PWM, Voltage Detect, WDT           Number of I/O         31           Program Memory Size         32KB (32K x 8)           Program Memory Type         FLASH           EEPROM Size         4K x 8           RAM Size         2.5K x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 5.5 V           Data Converters         A/D 12x10b           Oscillator Type         Internal           Operating Temperature         -20°C ~ 85°C (TA)           Mounting Type         -           Package / Case         40-XFQFN Exposed Pad           Supplier Device Package         40-HXQFN (5x5)	Manufacturer Part Number	R5F213J6TNNP#YC
Embedded - Microcontrollers           Package         40-XFQFN Exposed Pad           Series         R8C/3x/3JT           Core Processor         R8C           Core Size         16-Bit           Speed         20MHz           Connectivity         P°C, UART/USART           Peripherals         POR, PWM, Voltage Detect, WDT           Number of I/O         31           Program Memory Size         32KB (32K x 8)           Program Memory Type         FLASH           EEPROM Size         4K x 8           RAM Size         2.5K x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 5.5 V           Data Converters         A/D 12x10b           Oscillator Type         Internal           Operating Temperature         -20°C ~ 85°C (TA)           Mounting Type         -           Package / Case         40-XFQFN Exposed Pad           Supplier Device Package         40-HXQFN (5x5)	Manufacturer	Renesas Electronics America
Package         40-XFQFN Exposed Pad           Series         R8C/3x/3JT           Core Processor         R8C           Core Size         16-Bit           Speed         20MHz           Connectivity         P°C, UART/USART           Peripherals         POR, PWM, Voltage Detect, WDT           Number of I/O         31           Program Memory Size         32KB (32K x 8)           Program Memory Type         FLASH           EEPROM Size         4K x 8           RAM Size         2.5K x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 5.5 V           Data Converters         A/D 12x10b           Oscillator Type         Internal           Operating Temperature         -20°C ~ 85°C (TA)           Mounting Type         -           Package / Case         40-XFQFN Exposed Pad           Supplier Device Package         40-HXQFN (5x5)	Category	Integrated Circuits (ICs)
Series         R8C/3x/3JT           Core Processor         R8C           Core Size         16-Bit           Speed         20MHz           Connectivity         PC, UART/USART           Peripherals         POR, PWM, Voltage Detect, WDT           Number of I/O         31           Program Memory Size         32KB (32K x 8)           Program Memory Type         FLASH           EEPROM Size         4K x 8           RAM Size         2.5K x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 5.5 V           Data Converters         A/D 12x10b           Oscillator Type         Internal           Operating Temperature         -20°C ~ 85°C (TA)           Mounting Type         -           Package / Case         40-XFQFN Exposed Pad           Supplier Device Package         40-HXQFN (5x5)		Embedded - Microcontrollers
Core Processor         R8C           Core Size         16-Bit           Speed         20MHz           Connectivity         PC, UART/USART           Peripherals         POR, PWM, Voltage Detect, WDT           Number of I/O         31           Program Memory Size         32KB (32K x 8)           Program Memory Type         FLASH           EEPROM Size         4K x 8           RAM Size         2.5K x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 5.5 V           Data Converters         A/D 12x10b           Oscillator Type         Internal           Operating Temperature         -20°C ~ 85°C (TA)           Mounting Type         -           Package / Case         40-XFQFN Exposed Pad           Supplier Device Package         40-HXQFN (5x5)	Package	40-XFQFN Exposed Pad
Core Size  Speed  20MHz  Connectivity  Peripherals  POR, PWM, Voltage Detect, WDT  Number of I/O  31  Program Memory Size  32KB (32K x 8)  Program Memory Type  FLASH  EEPROM Size  4K x 8  RAM Size  2.5K x 8  Voltage - Supply (Vcc/Vdd)  1.8 V ~ 5.5 V  Data Converters  A/D 12x10b  Oscillator Type  Internal  Operating Temperature  Mounting Type  - 20°C ~ 85°C (TA)  Mounting Type  Package / Case  40-XFQFN Exposed Pad  40-HXQFN (5x5)	Series	R8C/3x/3JT
Speed20MHzConnectivityPC, UART/USARTPeripheralsPOR, PWM, Voltage Detect, WDTNumber of I/O31Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size4K x 8RAM Size2.5K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 5.5 VData ConvertersA/D 12x10bOscillator TypeInternalOperating Temperature-20°C ~ 85°C (TA)Mounting Type-Package / Case40-XFQFN Exposed PadSupplier Device Package40-HXQFN (5x5)	Core Processor	R8C
Connectivity Peripherals POR, PWM, Voltage Detect, WDT  Number of I/O 31  Program Memory Size 32KB (32K x 8)  Program Memory Type FLASH  EEPROM Size 4K x 8  RAM Size 2.5K x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 5.5 V  Data Converters A/D 12x10b  Oscillator Type Internal  Operating Temperature -20°C ~ 85°C (TA)  Mounting Type -  Package / Case 40-XFQFN Exposed Pad  Supplier Device Package 40-HXQFN (5x5)	Core Size	16-Bit
Peripherals POR, PWM, Voltage Detect, WDT  Number of I/O  31  Program Memory Size 32KB (32K x 8)  Program Memory Type FLASH  EEPROM Size 4K x 8  RAM Size 2.5K x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 5.5 V  Data Converters A/D 12x10b  Oscillator Type Internal Operating Temperature -20°C ~ 85°C (TA)  Mounting Type - Package / Case 40-XFQFN Exposed Pad Supplier Device Package 40-HXQFN (5x5)	Speed	20MHz
Number of I/O Program Memory Size 32KB (32K x 8) Program Memory Type FLASH EEPROM Size 4K x 8  RAM Size 2.5K x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 5.5 V  Data Converters A/D 12x10b  Oscillator Type Internal Operating Temperature -20°C ~ 85°C (TA)  Mounting Type - Package / Case 40-XFQFN Exposed Pad Supplier Device Package 40-HXQFN (5x5)	Connectivity	I <sup>2</sup> C, UART/USART
Program Memory Size  Program Memory Type  FLASH  EEPROM Size  4K x 8  RAM Size  2.5K x 8  Voltage - Supply (Vcc/Vdd)  1.8 V ~ 5.5 V  Data Converters  A/D 12x10b  Oscillator Type  Internal  Operating Temperature  -20°C ~ 85°C (TA)  Mounting Type  - Package / Case  40-XFQFN Exposed Pad  Supplier Device Package  40-HXQFN (5x5)	Peripherals	POR, PWM, Voltage Detect, WDT
Program Memory Type  EEPROM Size  4K x 8  RAM Size  2.5K x 8  Voltage - Supply (Vcc/Vdd)  1.8 V ~ 5.5 V  Data Converters  A/D 12x10b  Oscillator Type  Internal  Operating Temperature  -20°C ~ 85°C (TA)  Mounting Type  - Package / Case  40-XFQFN Exposed Pad  Supplier Device Package  40-HXQFN (5x5)	Number of I/O	31
EEPROM Size 4K x 8  RAM Size 2.5K x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 5.5 V  Data Converters A/D 12x10b  Oscillator Type Internal  Operating Temperature -20°C ~ 85°C (TA)  Mounting Type -  Package / Case 40-XFQFN Exposed Pad  Supplier Device Package 40-HXQFN (5x5)	Program Memory Size	32KB (32K x 8)
RAM Size  2.5K x 8  Voltage - Supply (Vcc/Vdd)  1.8 V ~ 5.5 V  Data Converters  A/D 12x10b  Oscillator Type  Internal  Operating Temperature  -20°C ~ 85°C (TA)  Mounting Type  - Package / Case  40-XFQFN Exposed Pad  Supplier Device Package  40-HXQFN (5x5)	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd)  1.8 V ~ 5.5 V  Data Converters  A/D 12x10b  Oscillator Type  Internal  Operating Temperature  -20°C ~ 85°C (TA)  Mounting Type  - Package / Case  40-XFQFN Exposed Pad  Supplier Device Package  40-HXQFN (5x5)	EEPROM Size	4K x 8
Data Converters  A/D 12x10b  Oscillator Type  Internal  Operating Temperature  -20°C ~ 85°C (TA)  Mounting Type  - Package / Case  40-XFQFN Exposed Pad  Supplier Device Package  40-HXQFN (5x5)	RAM Size	2.5K x 8
Oscillator Type Internal Operating Temperature -20°C ~ 85°C (TA)  Mounting Type - Package / Case 40-XFQFN Exposed Pad Supplier Device Package 40-HXQFN (5x5)	Voltage - Supply (Vcc/Vdd)	1.8 V ~ 5.5 V
Operating Temperature -20°C ~ 85°C (TA)  Mounting Type -  Package / Case 40-XFQFN Exposed Pad  Supplier Device Package 40-HXQFN (5x5)	Data Converters	A/D 12x10b
Mounting Type - Package / Case 40-XFQFN Exposed Pad Supplier Device Package 40-HXQFN (5x5)	Oscillator Type	Internal
Package / Case 40-XFQFN Exposed Pad Supplier Device Package 40-HXQFN (5x5)	Operating Temperature	-20°C ~ 85°C (TA)
Supplier Device Package 40-HXQFN (5x5)	Mounting Type	-
	Package / Case	40-XFQFN Exposed Pad
Report errors?	Supplier Device Package	40-HXQFN (5x5)
		Report errors?

### **R5F213J6TNNP#YC Guarantees**



#### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

## **R5F213J6TNNP#YC Payment Methods**



















## R5F213J6TNNP#YC Shipping Methods













If you have any question about R5F213J6TNNP#YC, please do not hesitate to contact us!

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