



#### R5F21184NP#U0 Information

Heisener.com

Part Number R5F21184NP#U0

Manufacturer Renesas Electronics America

Category Integrated Circuits (ICs)
Embedded - Microcontrollers

**Description** IC MCU 16BIT 16KB FLASH 28HWQFN

Package 28-WFQFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

For Reference Only

Website: https://www.heisener.com
E-mail: salesdept@heisener.com



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### R5F21184NP#U0 Specifications

Manufacturer Part Number         R5F21184NP#U0           Manufacturer         Renesas Electronics America           Category         Integrated Circuits (ICs)           Package         28-WFQFN Exposed Pad           Series         R8C/1x/18           Core Processor         R8C           Core Size         16-Bit           Speed         20MHz           Connectivity         SIO, UART/USART           Peripherals         LED, POR, Voltage Detect, WDT           Number of I/O         13           Program Memory Size         16KB (16K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         1K x 8           Voltage - Supply (Vcc/Vdd)         2.7 V ~ 5.5 V           Data Converters         A/D 4x1b           Oscillator Type         Internal           Operating Temperature         -20°C ~ 85°C (TA)           Mounting Type         -           Package / Case         28-WFQFN Exposed Pad           Supplier Device Package         28-HWQFN (5x5)		
Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         28-WFQFN Exposed Pad           Series         R8C/1x/18           Core Processor         R8C           Core Size         16-Bit           Speed         20MHz           Connectivity         SIO, UART/USART           Peripherals         LED, POR, Voltage Detect, WDT           Number of I/O         13           Program Memory Size         16KB (16K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         1K x 8           Voltage - Supply (Vcc/Vdd)         2.7 V ~ 5.5 V           Data Converters         A/D 4x1b           Oscillator Type         Internal           Operating Temperature         -20°C ~ 85°C (TA)           Mounting Type         -           Package / Case         28-WFQFN Exposed Pad           Supplier Device Package         28-HWQFN (5x5)	Manufacturer Part Number	R5F21184NP#U0
Embedded - Microcontrollers           Package         28-WFQFN Exposed Pad           Series         R8C/1x/18           Core Processor         R8C           Core Size         16-Bit           Speed         20MHz           Connectivity         SIO, UART/USART           Peripherals         LED, POR, Voltage Detect, WDT           Number of I/O         13           Program Memory Size         16KB (16K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         1K x 8           Voltage - Supply (Vcc/Vdd)         2.7 V ~ 5.5 V           Data Converters         A/D 4x1b           Oscillator Type         Internal           Operating Temperature         -20°C ~ 85°C (TA)           Mounting Type         -           Package / Case         28-WFQFN Exposed Pad           Supplier Device Package         28-HWQFN (5x5)	Manufacturer	Renesas Electronics America
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Series         R8C/1x/18           Core Processor         R8C           Core Size         16-Bit           Speed         20MHz           Connectivity         SIO, UART/USART           Peripherals         LED, POR, Voltage Detect, WDT           Number of I/O         13           Program Memory Size         16KB (16K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         1K x 8           Voltage - Supply (Vcc/Vdd)         2.7 V ~ 5.5 V           Data Converters         A/D 4x1b           Oscillator Type         Internal           Operating Temperature         -20°C ~ 85°C (TA)           Mounting Type         -           Package / Case         28-WFQFN Exposed Pad           Supplier Device Package         28-HWQFN (5x5)		Embedded - Microcontrollers
Core Processor         R8C           Core Size         16-Bit           Speed         20MHz           Connectivity         SIO, UART/USART           Peripherals         LED, POR, Voltage Detect, WDT           Number of I/O         13           Program Memory Size         16KB (16K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         1K x 8           Voltage - Supply (Vcc/Vdd)         2.7 V ~ 5.5 V           Data Converters         A/D 4x1b           Oscillator Type         Internal           Operating Temperature         -20°C ~ 85°C (TA)           Mounting Type         -           Package / Case         28-WFQFN Exposed Pad           Supplier Device Package         28-HWQFN (5x5)	Package	28-WFQFN Exposed Pad
Core Size         16-Bit           Speed         20MHz           Connectivity         SIO, UART/USART           Peripherals         LED, POR, Voltage Detect, WDT           Number of I/O         13           Program Memory Size         16KB (16K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         1K x 8           Voltage - Supply (Vcc/Vdd)         2.7 V ~ 5.5 V           Data Converters         A/D 4x1b           Oscillator Type         Internal           Operating Temperature         -20°C ~ 85°C (TA)           Mounting Type         -           Package / Case         28-WFQFN Exposed Pad           Supplier Device Package         28-HWQFN (5x5)	Series	R8C/1x/18
Speed 20MHz Connectivity SIO, UART/USART Peripherals LED, POR, Voltage Detect, WDT Number of I/O 13 Program Memory Size 16KB (16K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 1K x 8 Voltage - Supply (Vcc/Vdd) 2.7 V ~ 5.5 V Data Converters A/D 4x1b Oscillator Type Internal Operating Temperature -20°C ~ 85°C (TA) Mounting Type Package / Case 28-WFQFN Exposed Pad Supplier Device Package 28-HWQFN (5x5)	Core Processor	R8C
Connectivity  Peripherals  LED, POR, Voltage Detect, WDT  Number of I/O  13  Program Memory Size  16KB (16K x 8)  Program Memory Type  FLASH  EEPROM Size  - RAM Size  Voltage - Supply (Vcc/Vdd)  2.7 V ~ 5.5 V  Data Converters  A/D 4x1b  Oscillator Type  Internal  Operating Temperature  -20°C ~ 85°C (TA)  Mounting Type  Package / Case  Supplier Device Package  28-WFQFN Exposed Pad  Supplier Device Package	Core Size	16-Bit
Peripherals  Number of I/O  13  Program Memory Size  16KB (16K x 8)  Program Memory Type  FLASH  EEPROM Size  - RAM Size  1K x 8  Voltage - Supply (Vcc/Vdd)  2.7 V ~ 5.5 V  Data Converters  A/D 4x1b  Oscillator Type  Internal  Operating Temperature  Aoverting Temperature  Package / Case  Supplier Device Package  LED, POR, Voltage Detect, WDT  13  LED, POR, Voltage Detect, WDT  14  15  16KB (16K x 8)  FLASH  EEPROM Size  -  1K x 8  Voltage - Supply (Vcc/Vdd)  2.7 V ~ 5.5 V  A/D 4x1b  Internal  -20°C ~ 85°C (TA)  Supplier Device Package  28-WFQFN Exposed Pad  Supplier Device Package	Speed	20MHz
Number of I/O Program Memory Size 16KB (16K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 1K x 8 Voltage - Supply (Vcc/Vdd) 2.7 V ~ 5.5 V Data Converters A/D 4x1b Oscillator Type Internal Operating Temperature -20°C ~ 85°C (TA) Mounting Type - Package / Case Supplier Device Package 28-HWQFN (5x5)	Connectivity	SIO, UART/USART
Program Memory Size Program Memory Type FLASH  EEPROM Size - RAM Size 1K x 8  Voltage - Supply (Vcc/Vdd) 2.7 V ~ 5.5 V  Data Converters A/D 4x1b  Oscillator Type Internal Operating Temperature -20°C ~ 85°C (TA)  Mounting Type - Package / Case 28-WFQFN Exposed Pad Supplier Device Package 28-HWQFN (5x5)	Peripherals	LED, POR, Voltage Detect, WDT
Program Memory Type FLASH  EEPROM Size -  RAM Size 1K x 8  Voltage - Supply (Vcc/Vdd) 2.7 V ~ 5.5 V  Data Converters A/D 4x1b  Oscillator Type Internal  Operating Temperature -20°C ~ 85°C (TA)  Mounting Type -  Package / Case 28-WFQFN Exposed Pad  Supplier Device Package 28-HWQFN (5x5)	Number of I/O	13
EEPROM Size - IK x 8  Voltage - Supply (Vcc/Vdd) 2.7 V ~ 5.5 V  Data Converters A/D 4x1b  Oscillator Type Internal  Operating Temperature -20°C ~ 85°C (TA)  Mounting Type - Package / Case 28-WFQFN Exposed Pad  Supplier Device Package 28-HWQFN (5x5)	Program Memory Size	16KB (16K x 8)
RAM Size 1K x 8  Voltage - Supply (Vcc/Vdd) 2.7 V ~ 5.5 V  Data Converters A/D 4x1b  Oscillator Type Internal  Operating Temperature -20°C ~ 85°C (TA)  Mounting Type -  Package / Case 28-WFQFN Exposed Pad  Supplier Device Package 28-HWQFN (5x5)	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd)  2.7 V ~ 5.5 V  Data Converters  A/D 4x1b  Oscillator Type  Internal  Operating Temperature  -20°C ~ 85°C (TA)  Mounting Type  - Package / Case  28-WFQFN Exposed Pad  Supplier Device Package  28-HWQFN (5x5)	EEPROM Size	-
Data Converters  A/D 4x1b  Oscillator Type  Internal  Operating Temperature  -20°C ~ 85°C (TA)  Mounting Type  - Package / Case  28-WFQFN Exposed Pad  Supplier Device Package  28-HWQFN (5x5)	RAM Size	1K x 8
Oscillator Type Internal  Operating Temperature -20°C ~ 85°C (TA)  Mounting Type -  Package / Case 28-WFQFN Exposed Pad  Supplier Device Package 28-HWQFN (5x5)	Voltage - Supply (Vcc/Vdd)	2.7 V ~ 5.5 V
Operating Temperature -20°C ~ 85°C (TA)  Mounting Type - Package / Case 28-WFQFN Exposed Pad  Supplier Device Package 28-HWQFN (5x5)	Data Converters	A/D 4x1b
Mounting Type - Package / Case 28-WFQFN Exposed Pad Supplier Device Package 28-HWQFN (5x5)	Oscillator Type	Internal
Package / Case 28-WFQFN Exposed Pad Supplier Device Package 28-HWQFN (5x5)	Operating Temperature	-20°C ~ 85°C (TA)
Supplier Device Package 28-HWQFN (5x5)	Mounting Type	-
•	Package / Case	28-WFQFN Exposed Pad
Report errors?	Supplier Device Package	28-HWQFN (5x5)
		Report errors?

#### R5F21184NP#U0 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.

# R5F21184NP#U0 Payment Methods



















# **R5F21184NP#U0 Shipping Methods**













If you have any question about R5F21184NP#U0, please do not hesitate to contact us!

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