



#### R5F2121AKFP#U0 Information



For Reference Only

Part Number R5F2121AKFP#U0

Manufacturer Renesas Electronics America

Category Integrated Circuits (ICs)
Embedded - Microcontrollers

**Description** IC MCU 16BIT 96KB FLASH 48LFQFP

Package 48-LQFP

For the pricing/inventory/lead time, please contact

us

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



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## R5F2121AKFP#U0 Specifications

Manufacturer Part Number         R5F2121AKFP#U0           Manufacturer         Renesas Electronics America           Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         48-LQFP           Series         R8C/2x/21           Core Processor         R8C           Core Size         16-Bit           Speed         16MHz           Connectivity         12C, LIN, SIO, SSU, UART/USART           Peripherals         POR, Voltage Detect, WDT           Number of I/O         41           Program Memory Size         96KB (96K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         5K x 8           Voltage - Supply (Vcc/Vdd)         2.7 V ~ 5.5 V           Data Converters         A/D 12x10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         -           Package / Case         48-LQFP           Supplier Device Package         48-LQFP	*	
Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         48-LQFP           Series         R8C/2x/21           Core Processor         R8C           Core Size         16-Bit           Speed         16MHz           Connectivity         I2C, LIN, SIO, SSU, UART/USART           Peripherals         POR, Voltage Detect, WDT           Number of I/O         41           Program Memory Size         96KB (96K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         5K x 8           Voltage - Supply (Vcc/Vdd)         2.7 V ~ 5.5 V           Data Converters         A/D 12x10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         -           Package / Case         48-LQFP           Supplier Device Package         48-LQFP	Manufacturer Part Number	R5F2121AKFP#U0
Backage         48-LQFP           Series         R8C/2x/21           Core Processor         R8C           Core Size         16-Bit           Speed         16MHz           Connectivity         12C, LIN, SIO, SSU, UART/USART           Peripherals         POR, Voltage Detect, WDT           Number of I/O         41           Program Memory Size         96KB (96K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         5K x 8           Voltage - Supply (Vcc/Vdd)         2.7 V ~ 5.5 V           Data Converters         A/D 12x10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         -           Package / Case         48-LQFP           Supplier Device Package         48-LQFP	Manufacturer	Renesas Electronics America
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Series         R8C/2x/21           Core Processor         R8C           Core Size         16-Bit           Speed         16MHz           Connectivity         12C, LIN, SIO, SSU, UART/USART           Peripherals         POR, Voltage Detect, WDT           Number of I/O         41           Program Memory Size         96KB (96K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         5K x 8           Voltage - Supply (Vcc/Vdd)         2.7 V ~ 5.5 V           Data Converters         A/D 12x10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         -           Package / Case         48-LQFP           Supplier Device Package         48-LFQFP (7x7)		Embedded - Microcontrollers
Core Processor         R8C           Core Size         16-Bit           Speed         16MHz           Connectivity         12C, LIN, SIO, SSU, UART/USART           Peripherals         POR, Voltage Detect, WDT           Number of I/O         41           Program Memory Size         96KB (96K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         5K x 8           Voltage - Supply (Vcc/Vdd)         2.7 V ~ 5.5 V           Data Converters         A/D 12x10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         -           Package / Case         48-LQFP           Supplier Device Package         48-LFQFP (7x7)	Package	48-LQFP
Core Size         16-Bit           Speed         16MHz           Connectivity         12C, LIN, SIO, SSU, UART/USART           Peripherals         POR, Voltage Detect, WDT           Number of I/O         41           Program Memory Size         96KB (96K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         5K x 8           Voltage - Supply (Vcc/Vdd)         2.7 V ~ 5.5 V           Data Converters         A/D 12x10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         -           Package / Case         48-LQFP           Supplier Device Package         48-LFQFP (7x7)	Series	R8C/2x/21
Speed16MHzConnectivity12C, LIN, SIO, SSU, UART/USARTPeripheralsPOR, Voltage Detect, WDTNumber of I/O41Program Memory Size96KB (96K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size5K x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 5.5 VData ConvertersA/D 12x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case48-LQFPSupplier Device Package48-LFQFP (7x7)	Core Processor	R8C
Connectivity Peripherals PoR, Voltage Detect, WDT Number of I/O 41 Program Memory Size 96KB (96K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 5K x 8 Voltage - Supply (Vcc/Vdd) 2.7 V ~ 5.5 V Data Converters A/D 12x10b Oscillator Type Internal Operating Temperature -40°C ~ 125°C (TA) Mounting Type Supplier Device Package 48-LQFP Supplier Device Package	Core Size	16-Bit
Peripherals Number of I/O 41 Program Memory Size 96KB (96K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 5K x 8 Voltage - Supply (Vcc/Vdd) 2.7 V ~ 5.5 V Data Converters A/D 12x10b Oscillator Type Internal Operating Temperature 40°C ~ 125°C (TA) Mounting Type - Package / Case Supplier Device Package 48-LPGFP (7x7)	Speed	16MHz
Number of I/O Program Memory Size 96KB (96K x 8) Program Memory Type FLASH EEPROM Size - RAM Size St x 8 Voltage - Supply (Vcc/Vdd) 2.7 V ~ 5.5 V Data Converters A/D 12x10b Oscillator Type Internal Operating Temperature -40°C ~ 125°C (TA) Mounting Type - Package / Case Supplier Device Package 48-LQFP Supplier Device Package	Connectivity	I2C, LIN, SIO, SSU, UART/USART
Program Memory Size 96KB (96K x 8)  Program Memory Type FLASH  EEPROM Size - SK x 8  Voltage - Supply (Vcc/Vdd) 2.7 V ~ 5.5 V  Data Converters A/D 12x10b  Oscillator Type Internal  Operating Temperature -40°C ~ 125°C (TA)  Mounting Type -  Package / Case 48-LQFP  Supplier Device Package 48-LFQFP (7x7)	Peripherals	POR, Voltage Detect, WDT
Program Memory Type FLASH  EEPROM Size -  RAM Size 5K x 8  Voltage - Supply (Vcc/Vdd) 2.7 V ~ 5.5 V  Data Converters A/D 12x10b  Oscillator Type Internal  Operating Temperature -40°C ~ 125°C (TA)  Mounting Type -  Package / Case 48-LQFP  Supplier Device Package 48-LFQFP (7x7)	Number of I/O	41
EEPROM Size - SK x 8  Voltage - Supply (Vcc/Vdd) 2.7 V ~ 5.5 V  Data Converters A/D 12x10b  Oscillator Type Internal  Operating Temperature -40°C ~ 125°C (TA)  Mounting Type - Package / Case 48-LQFP  Supplier Device Package 48-LFQFP (7x7)	Program Memory Size	96KB (96K x 8)
RAM Size $5K \times 8$ Voltage - Supply (Vcc/Vdd) $2.7 \text{ V} \sim 5.5 \text{ V}$ Data Converters $A/D 12x10b$ Oscillator Type Internal  Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (TA)  Mounting Type -  Package / Case $48\text{-LQFP}$ Supplier Device Package $48\text{-LFQFP}$ (7x7)	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd)2.7 V ~ 5.5 VData ConvertersA/D 12x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case48-LQFPSupplier Device Package48-LFQFP (7x7)	EEPROM Size	-
Data Converters  A/D 12x10b  Oscillator Type Internal Operating Temperature  -40°C ~ 125°C (TA)  Mounting Type  - Package / Case  48-LQFP  Supplier Device Package  48-LFQFP (7x7)	RAM Size	5K x 8
Oscillator Type Internal Operating Temperature -40°C ~ 125°C (TA)  Mounting Type - Package / Case 48-LQFP Supplier Device Package 48-LFQFP (7x7)	Voltage - Supply (Vcc/Vdd)	2.7 V ~ 5.5 V
Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C (TA)}$ Mounting Type $-$ Package / Case $48\text{-LQFP}$ Supplier Device Package $48\text{-LFQFP (7x7)}$	Data Converters	A/D 12x10b
Mounting Type - Package / Case 48-LQFP Supplier Device Package 48-LFQFP (7x7)	Oscillator Type	Internal
Package / Case 48-LQFP Supplier Device Package 48-LFQFP (7x7)	Operating Temperature	-40°C ~ 125°C (TA)
Supplier Device Package 48-LFQFP (7x7)	Mounting Type	-
	Package / Case	48-LQFP
Report errors?	Supplier Device Package	48-LFQFP (7x7)
*		Report errors?

#### R5F2121AKFP#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.

## R5F2121AKFP#U0 Payment Methods



















### R5F2121AKFP#U0 Shipping Methods













If you have any question about R5F2121AKFP#U0, please do not hesitate to contact us!

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