

R5F21238KFP#U1



Part Number: [R5F21238KFP#U1](#)

Manufacturer: [Renesas Electronics America](#)

Description: IC MCU 16BIT 64KB FLASH 48LFQFP

Data sheet:  [R8C/22,23 Hardware Manual](#)  
 [R8C/22,23 Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |                                  |                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | R5F21238KFP#U1                            | Manufacturer                     | <a href="#">Renesas Electronics America</a>                                       |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IC MCU 16BIT 64KB FLASH 48LFQFP           | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                        |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 15557 pcs                                 | Data sheet                       | <a href="#">R8C/22,23 Hardware Manual</a><br><a href="#">R8C/22,23 Datasheet</a>  |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 2.7 V ~ 5.5 V                                                                     |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 48-LFQFP (7x7)                            | Speed                            | 16MHz                                                                             |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | R8C/2x/23                                 | RAM Size                         | 3K x 8                                                                            |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FLASH                                     | Program Memory Size              | 64KB (64K x 8)                                                                    |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | POR, Voltage Detect, WDT                  | Packaging                        | Tray                                                                              |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 48-LQFP                                   | Other Names                      | R5F21238KFPU1                                                                     |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Internal                                  | Operating Temperature            | -40°C ~ 125°C (TA)                                                                |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 41                                        | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                     |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 24 Weeks                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                        |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2K x 8                                    | Detailed Description             | R8C R8C/2x/23 Microcontroller IC 16-Bit 16MHz 64KB (64K x 8) FLASH 48-LFQFP (7x7) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A/D 12x10b                                | Core Size                        | 16-Bit                                                                            |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | R8C                                       | Connectivity                     | CANbus, I <sup>2</sup> C, LINbus, SIO, SSU, UART/USART                            |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | R5F21238                                  |                                  |                                                                                   |
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|  | Part#: <a href="#">R5F21244SN071FP#X6</a><br>Description: IC MCU                       | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
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