

R5F212G5SNFP#U0



**Part Number:** [R5F212G5SNFP#U0](#)

**Manufacturer:** [Renesas Electronics America](#)

**Description:** IC MCU 16BIT 24KB FLASH 32LQFP

**Data sheet:**  [R8C/2G Datasheet](#)  
 [R8C/2G Hardware Manual](#)

**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

**Shipment Way:** DHL/Fedex/TNT/UPS/EMS

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See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                 |                                  |                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | R5F212G5SNFP#U0                                                                 | Manufacturer                     | <a href="#">Renesas Electronics America</a>                                |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IC MCU 16BIT 24KB FLASH 32LQFP                                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                 |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3983 pcs                                                                        | Data sheet                       | <a href="#">R8C/2G Datasheet</a><br><a href="#">R8C/2G Hardware Manual</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <a href="#">Integrated Circuits (ICs)</a>                                       | Voltage - Supply (Vcc/Vdd)       | 2.2 V ~ 5.5 V                                                              |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 32-LQFP (7x7)                                                                   | Speed                            | 8MHz                                                                       |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | R8C/2x/2G                                                                       | RAM Size                         | 1K x 8                                                                     |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FLASH                                                                           | Program Memory Size              | 24KB (24K x 8)                                                             |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | POR, PWM, Voltage Detect, WDT                                                   | Packaging                        | Tray                                                                       |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 32-LQFP                                                                         | Other Names                      | R5F212G5SNFP#V0<br>R5F212G5SNFP#V0-ND                                      |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Internal                                                                        | Operating Temperature            | -20°C ~ 85°C (TA)                                                          |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 27                                                                              | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                              |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Lead free / RoHS Compliant                                                      | EEPROM Size                      | -                                                                          |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                               | R8C R8C/2x/2G Microcontroller IC 16-Bit 8MHz 24KB (24K x 8) FLASH 32-LQFP (7x7) | Data Converters                  | -                                                                          |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 16-Bit                                                                          | Core Processor                   | R8C                                                                        |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LINbus, SIO, UART/USART                                                         | Base Part Number                 | R5F212G                                                                    |
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