

R5F212A8SDFA#V2



Part Number: [R5F212A8SDFA#V2](#)

Manufacturer: [Renesas Electronics America](#)

Description: IC MCU 16BIT 64KB FLASH 64LQFP

Data sheet:  [R8C/2A/2B Datasheet](#)  
 [R8C/2A/2B Hardware Manual](#)

RoHs Status: Lead free / RoHS Compliant

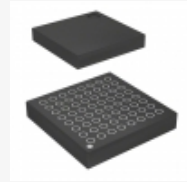
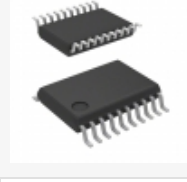
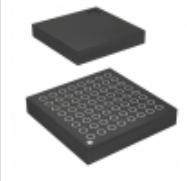
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |                                |                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | R5F212A8SDFA#V2                           | Manufacturer                   | <a href="#">Renesas Electronics America</a>                                        |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IC MCU 16BIT 64KB FLASH 64LQFP            | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                         |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5849 pcs                                  | Data sheet                     | <a href="#">R8C/2A/2B Datasheet</a><br><a href="#">R8C/2A/2B Hardware Manual</a>   |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 2.2 V ~ 5.5 V                                                                      |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 64-LQFP (14x14)                           | Speed                          | 20MHz                                                                              |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | R8C/2x/2A                                 | RAM Size                       | 3K x 8                                                                             |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FLASH                                     | Program Memory Size            | 64KB (64K x 8)                                                                     |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | POR, PWM, Voltage Detect, WDT             | Packaging                      | Tray                                                                               |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 64-LQFP                                   | Oscillator Type                | Internal                                                                           |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -40°C ~ 85°C (TA)                         | Number of I/O                  | 55                                                                                 |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                         |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -                                         | Detailed Description           | R8C R8C/2x/2A Microcontroller IC 16-Bit 20MHz 64KB (64K x 8) FLASH 64-LQFP (14x14) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A/D 12x10b; D/A 2x8b                      | Core Size                      | 16-Bit                                                                             |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | R8C                                       | Connectivity                   | I <sup>2</sup> C, LINbus, SIO, SSU, UART/USART                                     |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | R5F212A8                                  |                                |                                                                                    |
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|  | Part#: <a href="#">R5F21296KSP#W4</a><br>Description: IC MCU 16BIT 32KB FLASH 20LSSOP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
|  | Part#: <a href="#">R5F212A7SNFP#V2</a><br>Description: IC MCU 16BIT 48KB FLASH 64LFQFP | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">R5F212A8SNFP#V2</a><br>Description: IC MCU 16BIT 64KB FLASH 64LFQFP | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">R5F212A7SNA66FP#V2</a><br>Description: IC MCU LQFP                  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
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