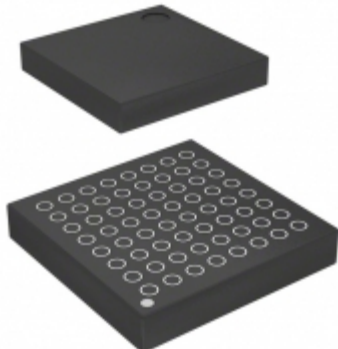


R5F212AASNLG#U0



Images are for reference only.  
See Product Specifications for product details.  
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Part Number: R5F212AASNLG#U0

Manufacturer: Renesas Electronics America

Description: IC MCU 16BIT 96KB FLASH 64TFLGA

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

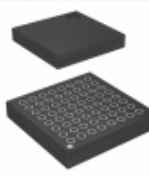
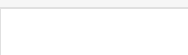
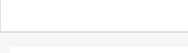
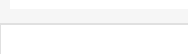
RoHs Status: Lead free / RoHS Compliant

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                                |                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                         | R5F212AASNLG#U0                           | Manufacturer                   | <a href="#">Renesas Electronics America</a>                                       |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                         | IC MCU 16BIT 96KB FLASH 64TFLGA           | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                        |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                  | 4915 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-TFLGA (6x6)                            | Speed                          | 20MHz                                                                             |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                              | R8C/2x/2A                                 | RAM Size                       | 7K x 8                                                                            |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                 | FLASH                                     | Program Memory Size            | 96KB (96K x 8)                                                                    |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                         | POR, PWM, Voltage Detect, WDT             | Packaging                      | Tray                                                                              |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                      | 64-TFLGA                                  | Oscillator Type                | Internal                                                                          |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                               | -20°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 96KB (96K x 8) FLASH 64-TFLGA (6x6) |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                    | R5F212AA                                  |                                |                                                                                   |
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|  | Part#: <a href="#">R5F212ACSNLG#U0</a><br>Description: IC MCU 16BIT 128KB FLASH 64TFLGA | 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> |
|  | Part#: <a href="#">R5F212AASDFA#V2</a><br>Description: IC MCU 16BIT 96KB FLASH 64LQFP   | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
|  | Part#: <a href="#">R5F212ACSDFA#V2</a><br>Description: IC MCU 16BIT 128KB FLASH 64LQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">R5F212ACSDFP#V2</a><br>Description: IC MCU 16BIT 128KB FLASH 64LQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
|  | Part#: <a href="#">R5F212B7SNFA#V2</a><br>Description: IC MCU 16BIT 48KB FLASH 64LQFP   | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
|  | Part#: <a href="#">R5F212B7SDFA#V2</a><br>Description: IC MCU 16BIT 48KB FLASH 64LQFP   | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
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