

R5F101FFDFP#V0



**Part Number:** [R5F101FFDFP#V0](#)

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

**Description:** IC MCU 16BIT 96KB FLASH 44LQFP

**Data sheet:**  [RL78/G13 Datasheet](#)

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

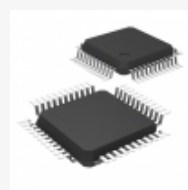
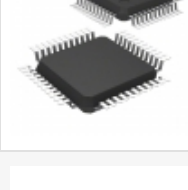
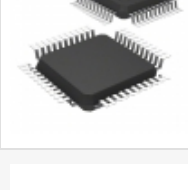
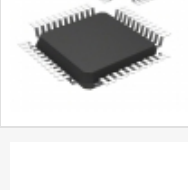
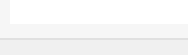
**Ship From:** Hong Kong

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See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                                |                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                         | R5F101FFDFP#V0                            | Manufacturer                   | <a href="#">Renesas Electronics America</a>                                        |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                         | IC MCU 16BIT 96KB FLASH 44LQFP            | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                         |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                  | 55724 pcs                                 | Data sheet                     | <a href="#">RL78/G13 Datasheet</a>                                                 |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                            | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 1.6 V ~ 5.5 V                                                                      |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                             | 44-LQFP (10x10)                           | Speed                          | 32MHz                                                                              |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                              | RL78/G13                                  | RAM Size                       | 8K x 8                                                                             |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                 | FLASH                                     | Program Memory Size            | 96KB (96K x 8)                                                                     |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                         | DMA, LVD, POR, PWM, WDT                   | Packaging                      | Tray                                                                               |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                      | 44-LQFP                                   | Oscillator Type                | Internal                                                                           |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                               | -40°C ~ 85°C (TA)                         | Number of I/O                  | 31                                                                                 |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                    | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                         |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                         | -                                         | Detailed Description           | RL78 RL78/G13 Microcontroller IC 16-Bit 32MHz 96KB (96K x 8) FLASH 44-LQFP (10x10) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                     | A/D 10x8/10b                              | Core Size                      | 16-Bit                                                                             |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                      | RL78                                      | Connectivity                   | CSI, I <sup>2</sup> C, LINbus, UART/USART                                          |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                    | R5F101                                    |                                |                                                                                    |
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