

R5F100LGDFB#50



Part Number: [R5F100LGDFB#50](#)

Manufacturer: [Renesas Electronics America](#)

Description: IC MCU 16BIT 128KB FLASH 64LQFP

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

RoHs Status: Lead free / RoHS Compliant

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |                                |                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                        | R5F100LGDFB#50                            | Manufacturer                   | <a href="#">Renesas Electronics America</a>                                          |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                        | IC MCU 16BIT 128KB FLASH 64LQFP           | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                           |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                 | 5977 pcs                                  | Data sheet                     | <a href="#">RL78/G13 Datasheet</a><br><a href="#">RL78/G13 Hardware Manual</a>       |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                           | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 1.6 V ~ 5.5 V                                                                        |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                            | 64-LQFP (10x10)                           | Speed                          | 32MHz                                                                                |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                             | RL78/G13                                  | RAM Size                       | 12K x 8                                                                              |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                | FLASH                                     | Program Memory Size            | 128KB (128K x 8)                                                                     |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                        | DMA, LVD, POR, PWM, WDT                   | Packaging                      | Tape & Reel (TR)                                                                     |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                     | 64-LQFP                                   | Oscillator Type                | Internal                                                                             |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                              | -40°C ~ 85°C (TA)                         | Number of I/O                  | 48                                                                                   |
| 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 128KB (128K x 8) FLASH 64-LQFP (10x10) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                    | A/D 12x8/10b                              | Core Size                      | 16-Bit                                                                               |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                     | RL78                                      | Connectivity                   | CSI, I <sup>2</sup> C, LINbus, UART/USART                                            |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                   | R5F100                                    |                                |                                                                                      |
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