

R5F100PGGFA#V0



Part Number: [R5F100PGGFA#V0](#)

Manufacturer: [Renesas Electronics America](#)

Description: IC MCU 16BIT 128KB FLASH 100LQFP

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

RoHs Status: Lead free / RoHS Compliant

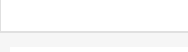
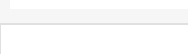
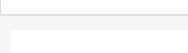
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                 |                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | R5F100PGGFA#V0                                                                        | Manufacturer                    | <a href="#">Renesas Electronics America</a>                                    |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IC MCU 16BIT 128KB FLASH 100LQFP                                                      | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                     |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 29502 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                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 100-LQFP (14x20)                                                                      | 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                       | Tray                                                                           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 100-LQFP                                                                              | Oscillator Type                 | Internal                                                                       |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -40°C ~ 105°C (TA)                                                                    | Number of I/O                   | 82                                                                             |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3 (168 Hours)                                                                         | Manufacturer Standard Lead Time | 24 Weeks                                                                       |
| 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 100-LQFP (14x20) | Data Converters                 | A/D 20x8/10b                                                                   |
| 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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