

R5F51138ADFM#3A



Part Number: [R5F51138ADFM#3A](#)

Manufacturer: [Renesas Electronics America](#)

Description: IC MCU 32BIT 512KB FLASH 64LFQFP

Data sheet:  [RX113 Datasheet](#)  
 [RX113 Hardware Manual](#)

RoHs Status: Lead free / RoHS Compliant

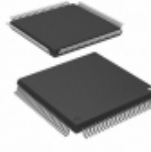
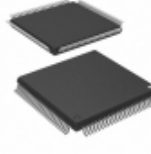
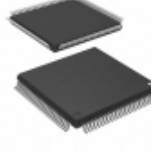
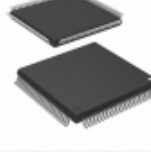
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                  |                                 |                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | R5F51138ADFM#3A                                                                  | Manufacturer                    | <a href="#">Renesas Electronics America</a>                              |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | IC MCU 32BIT 512KB FLASH 64LFQFP                                                 | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                               |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 34252 pcs                                                                        | Data sheet                      | <a href="#">RX113 Datasheet</a><br><a href="#">RX113 Hardware Manual</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <a href="#">Integrated Circuits (ICs)</a>                                        | Voltage - Supply (Vcc/Vdd)      | 1.8 V ~ 3.6 V                                                            |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 64-LFQFP (10x10)                                                                 | Speed                           | 32MHz                                                                    |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RX100                                                                            | RAM Size                        | 64K x 8                                                                  |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FLASH                                                                            | Program Memory Size             | 512KB (512K x 8)                                                         |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DMA, LCD, LVD, POR, PWM, WDT                                                     | Packaging                       | Tray                                                                     |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 64-LQFP                                                                          | Oscillator Type                 | Internal                                                                 |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -40°C ~ 85°C (TA)                                                                | Number of I/O                   | 44                                                                       |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3 (168 Hours)                                                                    | Manufacturer Standard Lead Time | 24 Weeks                                                                 |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Lead free / RoHS Compliant                                                       | EEPROM Size                     | 8K x 8                                                                   |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RX RX100 Microcontroller IC 32-Bit 32MHz 512KB (512K x 8) FLASH 64-LFQFP (10x10) | Data Converters                 | A/D 11x12b, D/A 2x12b                                                    |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 32-Bit                                                                           | Core Processor                  | RX                                                                       |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | I <sup>2</sup> C, IrDA, SCI, SPI, SSI, USB OTG                                   |                                 |                                                                          |
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