

R5F6416MADFD#UA



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**Part Number:** [R5F6416MADFD#UA](#)

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

**Description:** IC MCU 32BIT 1MB FLASH 144LFQFP

**Data sheet:**  [R32C/116A Datasheet](#)  
 [R32C/116A Hardware Manual](#)

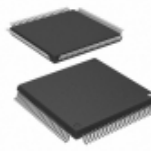
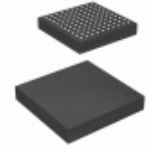
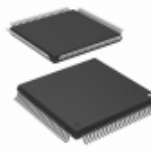
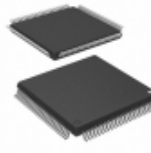
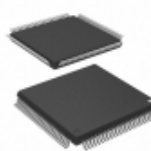
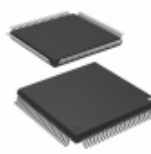
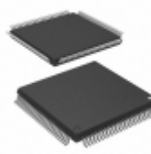
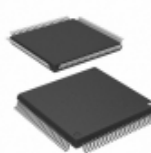
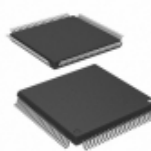
**RoHs Status:** Lead free / RoHS Compliant

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                                |                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                         | R5F6416MADFD#UA                           | Manufacturer                   | <a href="#">Renesas Electronics America</a>                                                         |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                         | IC MCU 32BIT 1MB FLASH 144LFQFP           | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                          |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                  | 6489 pcs                                  | Data sheet                     | <a href="#">R32C/116A Datasheet</a><br><a href="#">R32C/116A Hardware Manual</a>                    |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                            | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 3 V ~ 5.5 V                                                                                         |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                             | 144-LFQFP (20x20)                         | Speed                          | 50MHz                                                                                               |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                              | M16C/R32C/100/116A                        | RAM Size                       | 96K x 8                                                                                             |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                 | FLASH                                     | Program Memory Size            | 1MB (1M x 8)                                                                                        |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                         | DMA, LVD, PWM, WDT                        | Packaging                      | Tray                                                                                                |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                      | 144-LQFP                                  | Oscillator Type                | Internal                                                                                            |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                               | -40°C ~ 85°C (TA)                         | Number of I/O                  | 126                                                                                                 |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                    | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                          |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                         | -                                         | Detailed Description           | R32C/100 M16C/R32C/100/116A Microcontroller IC 16/32-Bit 50MHz 1MB (1M x 8) FLASH 144-LFQFP (20x20) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                     | A/D 34x10b, D/A 2x8b                      | Core Size                      | 16/32-Bit                                                                                           |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                      | R32C/100                                  | Connectivity                   | EBI/EMI, I <sup>2</sup> C, IEBus, UART/USART                                                        |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                    | R5F6416                                   |                                |                                                                                                     |
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|  | Part#: <a href="#">R5F64175DFD#UB</a><br>Description: IC MCU 32BIT 384KB FLASH 144QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">R5F64176DFB#UB</a><br>Description: IC MCU 32BIT 512KB FLASH 100QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">R5F64175DFB#UB</a><br>Description: IC MCU 32BIT 384KB FLASH 100QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">R5F64167DFB#U0</a><br>Description: IC MCU 32BIT 640KB FLASH 100QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F64177DFB#UB</a><br>Description: IC MCU 32BIT 640KB FLASH 100QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">R5F64168DFD#U0</a><br>Description: IC MCU 32BIT 768KB FLASH 144QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F64177DFD#UB</a><br>Description: IC MCU 32BIT 640KB FLASH 144QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">R5F64168DFB#U0</a><br>Description: IC MCU 32BIT 768KB FLASH 100QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
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