

R5F64178DFD#UB



Part Number: [R5F64178DFD#UB](#)

Manufacturer: [Renesas Electronics America](#)

Description: IC MCU 32BIT 768KB FLASH 144LQFP

Data sheet:  [R32C/117 Hardware Manual](#)  
 [R32C/117 Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

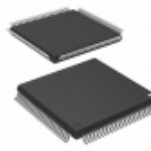
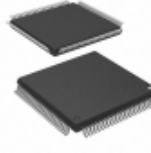
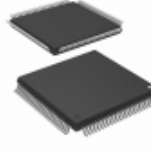
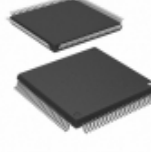
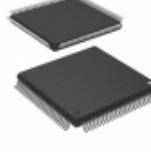
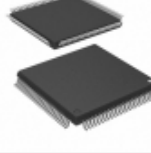
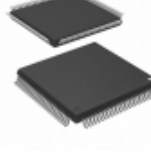
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                           |                                |                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | R5F64178DFD#UB                            | Manufacturer                   | <a href="#">Renesas Electronics America</a>                                                            |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | IC MCU 32BIT 768KB FLASH 144LQFP          | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                             |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5367 pcs                                  | Data sheet                     | <a href="#">R32C/117 Hardware Manual</a><br><a href="#">R32C/117 Datasheet</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/100/117                         | RAM Size                       | 63K x 8                                                                                                |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FLASH                                     | Program Memory Size            | 768KB (768K 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                  | 120                                                                                                    |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 (Unlimited)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                             |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -                                         | Detailed Description           | R32C/100 M16C/R32C/100/117 Microcontroller IC 16/32-Bit 50MHz 768KB (768K x 8) FLASH 144-LFQFP (20x20) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A/D 34x10b, D/A 2x8b                      | Core Size                      | 16/32-Bit                                                                                              |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | R32C/100                                  | Connectivity                   | CANbus, EBI/EMI, I <sup>2</sup> C, IEBus, UART/USART                                                   |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | R5F64178                                  |                                |                                                                                                        |
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| RELATED PRODUCTS                                                                   |                                                                                        |                                                            |                |
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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> | <div>RFQ</div> |
|  | Part#: <a href="#">R5F64179DFB#U0</a><br>Description: IC MCU 32BIT 1MB FLASH 100LFQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
|  | Part#: <a href="#">R5F64177PFD#UB</a><br>Description: IC MCU 32BIT 640KB FLASH 144QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">R5F64185DFD#U0</a><br>Description: IC MCU 32BIT 384KB FLASH 144QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
|  | Part#: <a href="#">R5F64177PFB#UB</a><br>Description: IC MCU 32BIT 640KB FLASH 100QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">R5F64177DFB#UB</a><br>Description: IC MCU 32BIT 640KB FLASH 100QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
|  | Part#: <a href="#">R5F64187DFB#U0</a><br>Description: IC MCU 32BIT 640KB FLASH 100QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
|  | Part#: <a href="#">R5F64179DFB#UB</a><br>Description: IC MCU 32BIT 1MB FLASH 100LFQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
|  | Part#: <a href="#">R5F64186DFB#U0</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
|  | Part#: <a href="#">R5F64179DFD#UB</a><br>Description: IC MCU 32BIT 1MB FLASH 144LFQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
|  | Part#: <a href="#">R5F64176DFB#U0</a><br>Description: IC MCU 32BIT 512KB FLASH 100QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
|  | Part#: <a href="#">R5F64185DFB#U0</a><br>Description: IC MCU 32BIT 384KB FLASH 100QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
|  | Part#: <a href="#">R5F64175DFD#UB</a><br>Description: IC MCU 32BIT 384KB FLASH 144QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
|  | Part#: <a href="#">R5F64189DFB#U0</a><br>Description: IC MCU 32BIT 1MB FLASH 100LFQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
|  | Part#: <a href="#">R5F64185DFD#UB</a><br>Description: IC MCU 32BIT 384KB FLASH 144QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
|  | Part#: <a href="#">R5F64176PFB</a><br>Description: IC MCU LQFP                         | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">R5F64188DFD#U0</a><br>Description: IC MCU 32BIT 768KB FLASH 100QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |

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