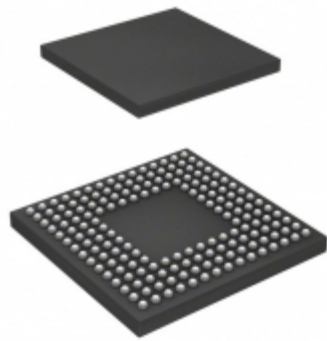


R5F72167BDBG#U1



**Part Number:** [R5F72167BDBG#U1](#)

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

**Description:** IC MCU 32BIT 1MB FLASH 176LFBGA

**Data sheet:**  [SH7214/16 Group](#)

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

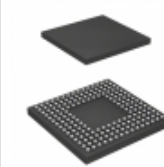
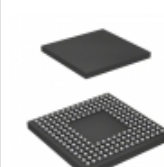
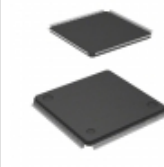
**Ship From:** Hong Kong

**Shipment Way:** DHL/Fedex/TNT/UPS/EMS

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                                |                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                         | R5F72167BDBG#U1                           | Manufacturer                   | <a href="#">Renesas Electronics America</a>                                                   |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                         | IC MCU 32BIT 1MB FLASH 176LFBGA           | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                    |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                  | 3091 pcs                                  | Data sheet                     | <a href="#">SH7214/16 Group</a>                                                               |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                            | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 3 V ~ 3.6 V                                                                                   |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                             | 176-LFBGA (13x13)                         | Speed                          | 200MHz                                                                                        |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                              | SuperH® SH7216                            | RAM Size                       | 128K x 8                                                                                      |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                 | FLASH                                     | Program Memory Size            | 1MB (1M x 8)                                                                                  |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                         | DMA, PWM, WDT                             | Packaging                      | Tray                                                                                          |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                      | 176-LFBGA                                 | Oscillator Type                | External                                                                                      |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                               | -40°C ~ 85°C (TA)                         | Number of I/O                  | 112                                                                                           |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                    | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                    |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                         | -                                         | Detailed Description           | SH2A-FPU SuperH® SH7216 Microcontroller IC 32-Bit 200MHz 1MB (1M x 8) FLASH 176-LFBGA (13x13) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                     | A/D 8x12b                                 | Core Size                      | 32-Bit                                                                                        |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                      | SH2A-FPU                                  | Connectivity                   | CANbus, Ethernet, PC, SCI, SPI, USB                                                           |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                    | R5F72167                                  |                                |                                                                                               |
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|  | Part#: <a href="#">R5F72375BDFP#V0</a><br>Description: IC MCU 32BIT 512KB FLASH 120LQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F72167ADBG#U1</a><br>Description: IC MCU 32BIT 1MB FLASH 176LFBGA   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F72166ADFP#V1</a><br>Description: IC MCU 32BIT 768KB FLASH 176QFP   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F72374ADFP#V0</a><br>Description: IC MCU 32BIT 256KB FLASH 120LQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F72167ADFP#V1</a><br>Description: IC MCU 32BIT 1MB FLASH 176LFQFP   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F72167ADFA#V1</a><br>Description: IC MCU 32BIT 1MB FLASH 176LQFP    | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F72394ADFP#V0</a><br>Description: IC MCU 32BIT 256KB FLASH 120LQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F72165ADBG#U1</a><br>Description: IC MCU 32BIT 512KB FLASH 176BGA   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F72375ADFP#V0</a><br>Description: IC MCU 32BIT 512KB FLASH 120LQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F72433D100FP#U0</a><br>Description: IC MCU 32BIT 128KB FLASH 100QFP | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F72165ADFA#V1</a><br>Description: IC MCU 32BIT 512KB FLASH 176LQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F72165GDFA#V1</a><br>Description: IC MCU 32BIT 512KB FLASH 176LQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F72374BDFP#V0</a><br>Description: IC MCU 32BIT 256KB FLASH 120LQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F72166ADFA#V1</a><br>Description: IC MCU 32BIT 768KB FLASH 176LQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F72394BDFP#V0</a><br>Description: IC MCU 32BIT 256KB FLASH 120LQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F72395ADFP#V0</a><br>Description: IC MCU 32BIT 512KB FLASH 120LQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F72165ADFP#V1</a><br>Description: IC MCU 32BIT 512KB FLASH 176QFP   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F72167GDFA#V1</a><br>Description: IC MCU 32BIT 1MB FLASH 176LQFP    | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F72165BDFA#V1</a><br>Description: IC MCU 32BIT 512KB FLASH 176LQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |

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