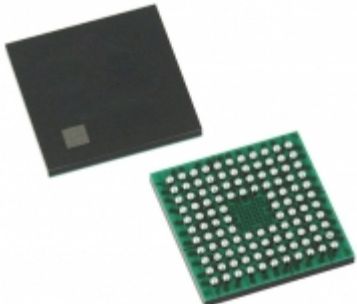


R4F2153VBR25KDV



**Part Number:** [R4F2153VBR25KDV](#)

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

**Description:** IC MCU 16BIT 512KB FLASH 112BGA

**Data sheet:**  [H8S/2153 Group Hrdw Manual](#)

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

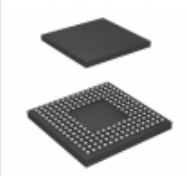
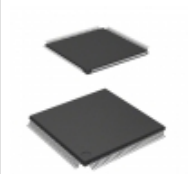
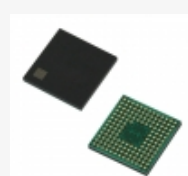
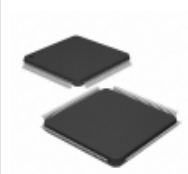
**Ship From:** Hong Kong

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

Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                                |                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                         | R4F2153VBR25KDV                           | Manufacturer                   | <a href="#">Renesas Electronics America</a>                                                    |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                         | IC MCU 16BIT 512KB FLASH 112BGA           | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                     |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                  | 7212 pcs                                  | Data sheet                     | <a href="#">H8S/2153 Group Hrdw Manual</a>                                                     |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                            | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 3 V ~ 3.6 V                                                                                    |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                             | 112-LFBGA (10x10)                         | Speed                          | 25MHz                                                                                          |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                              | H8® H8S/2100                              | RAM Size                       | 40K x 8                                                                                        |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                 | FLASH                                     | Program Memory Size            | 512KB (512K x 8)                                                                               |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                         | POR, PWM, WDT                             | Packaging                      | Tray                                                                                           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                      | 112-LFBGA                                 | Oscillator Type                | External                                                                                       |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                               | -40°C ~ 85°C (TA)                         | Number of I/O                  | 53                                                                                             |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                    | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                     |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                         | -                                         | Detailed Description           | H8S/2600 H8® H8S/2100 Microcontroller IC 16-Bit 25MHz 512KB (512K x 8) FLASH 112-LFBGA (10x10) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                     | A/D 8x10b                                 | Core Size                      | 16-Bit                                                                                         |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                      | H8S/2600                                  | Connectivity                   | IPC, LPC, SCI                                                                                  |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                    | R4F2153                                   |                                |                                                                                                |
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|  | Part#: <a href="#">R4F2164VTE34V</a><br>Description: IC MCU 16BIT 512KB FLASH 144TQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R4F24278DVRFQU</a><br>Description: IC MCU 16BIT 512KB FLASH 144QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R4F24269NVFQV</a><br>Description: IC MCU 16BIT 256KB FLASH 144QFP   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R4F24268NVRFQV</a><br>Description: IC MCU 16BIT 256KB FLASH 144QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R4F20115NFA#U0</a><br>Description: IC MCU 16BIT 256KB FLASH 64LQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">R4F20203RDFD#V0</a><br>Description: IC MCU 16BIT 128KB FLASH 80LQFP | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R4F24278NVFQU</a><br>Description: IC MCU 16BIT 512KB FLASH 144QFP   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R4F20203RNFD#V0</a><br>Description: IC MCU 16BIT 128KB FLASH 80LQFP | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R4F2113NBG#U0</a><br>Description: IC MCU 16BIT 128KB FLASH 176BGA   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R4F20202DFD#U0</a><br>Description: IC MCU 16BIT 96KB FLASH 80LQFP   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R4F2113NFT#U0</a><br>Description: IC MCU 16BIT 128KB FLASH 144TQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R4F24268NVZFQV</a><br>Description: IC MCU 16BIT 256KB FLASH 144QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R4F20202NFD#U0</a><br>Description: IC MCU 16BIT 96KB FLASH 80LQFP   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R4F24248NVFPV</a><br>Description: IC MCU 16BIT 256KB FLASH 120LQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R4F20104NFA#U0</a><br>Description: IC MCU 192KB 2.7/5.5VC 64LQFP    | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R4F2113NLG#U0</a><br>Description: IC MCU 16BIT 128KB FLASH 145LGA   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R4F24249NVFPV</a><br>Description: IC MCU 16BIT 256KB FLASH 120LQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R4F24268NVFQV</a><br>Description: IC MCU 16BIT 256KB FLASH 144QFP   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |

|                                             |                                         |                          |                       |
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