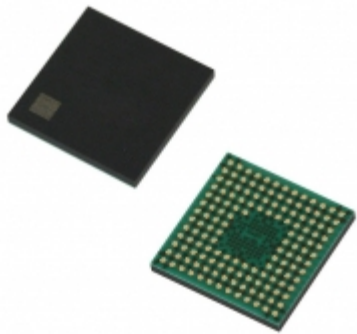


R5F61665N50LGV



**Part Number:** [R5F61665N50LGV](#)

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

**Description:** IC MCU 32BIT 512KB FLASH 145LGA

**Data sheet:**  [H8SX/1665\(M\) Group Hrdw Manual](#)

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

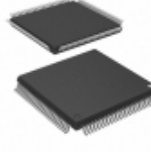
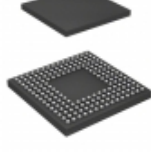
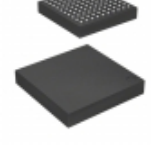
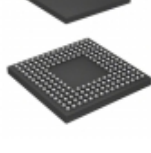
**Ship From:** Hong Kong

**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                                                                                                                                                                                                                                                                                                                                                                                                                        | R5F61665N50LGV                            | Manufacturer                   | <a href="#">Renesas Electronics America</a>                                               |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                        | IC MCU 32BIT 512KB FLASH 145LGA           | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                 | 7580 pcs                                  | Data sheet                     | <a href="#">H8SX/1665(M) Group Hrdw Manual</a>                                            |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                           | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 3 V ~ 3.6 V                                                                               |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                            | 145-TFLGA (9x9)                           | Speed                          | 50MHz                                                                                     |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                             | H8@ H8SX/1600                             | RAM Size                       | 40K x 8                                                                                   |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                | FLASH                                     | Program Memory Size            | 512KB (512K x 8)                                                                          |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                        | DMA, LVD, POR, PWM, WDT                   | Packaging                      | Tray                                                                                      |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                     | 145-TFLGA                                 | Oscillator Type                | External                                                                                  |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                              | -20°C ~ 75°C (TA)                         | Number of I/O                  | 92                                                                                        |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                   | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                        | -                                         | Detailed Description           | H8SX H8@ H8SX/1600 Microcontroller IC 32-Bit 50MHz 512KB (512K x 8) FLASH 145-TFLGA (9x9) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                    | A/D 8x10b; D/A 2x10b                      | Core Size                      | 32-Bit                                                                                    |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                     | H8SX                                      | Connectivity                   | EBI/EMI, I <sup>2</sup> C, IrDA, SCI, SmartCard, USB                                      |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                   | R5F61665                                  |                                |                                                                                           |
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|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------|
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|  | Part#: <a href="#">R5F61668RZN50FPV</a><br>Description: IC MCU 32BIT 1MB FLASH 144LFQFP | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F61663RN50FPV</a><br>Description: IC MCU 32BIT 384KB FLASH 144QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F61665D50FPV</a><br>Description: IC MCU 32BIT 512KB FLASH 144QFP   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F61665MZN50FPV</a><br>Description: IC MCU 32BIT 512KB FLASH 144QFP | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F61665ZN50FPV</a><br>Description: IC MCU 32BIT 512KB FLASH 144QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F61668MZN50FPV</a><br>Description: IC MCU 32BIT 1MB FLASH 144LFQFP | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F64111DFB#U0</a><br>Description: IC MCU 32BIT 384KB FLASH 100QFP   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F61664MN50FPV</a><br>Description: IC MCU 32BIT 512KB FLASH 144QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F61664RN50FPV</a><br>Description: IC MCU 32BIT 512KB FLASH 144QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F61668MN50BGV</a><br>Description: IC MCU 32BIT 1MB FLASH 176LFBGA  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F61665N50FPV</a><br>Description: IC MCU 32BIT 512KB FLASH 144QFP   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F61665MN50FPV</a><br>Description: IC MCU 32BIT 512KB FLASH 144QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F64110DFB#U0</a><br>Description: IC MCU 32BIT 256KB FLASH 100QFP   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F64111NLG#U0</a><br>Description: IC MCU 32BIT 384KB FLASH 100LGA   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F61663RD50FPV</a><br>Description: IC MCU 32BIT 384KB FLASH 144QFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F61668RD50FPV</a><br>Description: IC MCU 32BIT 1MB FLASH 144LFQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F61665D50LGV</a><br>Description: IC MCU 32BIT 512KB FLASH 145LGA   | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F61668RD50BGV</a><br>Description: IC MCU 32BIT 1MB FLASH 176LFBGA  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">R5F61668RN50FPV</a><br>Description: IC MCU 32BIT 1MB FLASH 144LFQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <a href="#">RFQ</a> |

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