

R5F565NEDDFC#30



Part Number: [R5F565NEDDFC#30](#)

Manufacturer: [Renesas Electronics America](#)

Description: 32BIT MCU RX65N 2MB 640KB QFP176

Data sheet:  [RX65N, RX651 Group Datasheet](#)  
 [RX65N, RX651 Group Hrdw Manual](#)

RoHs Status: Lead free / RoHS Compliant

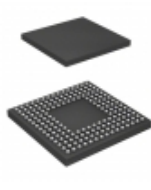
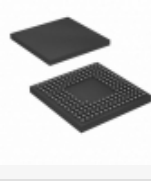
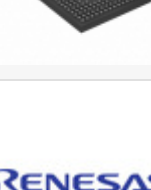
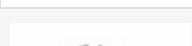
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                              |                                 |                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                         | R5F565NEDDFC#30                                                                              | Manufacturer                    | <a href="#">Renesas Electronics America</a>                                                    |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                         | 32BIT MCU RX65N 2MB 640KB QFP176                                                             | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                     |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                  | 8850 pcs                                                                                     | Data sheet                      | <a href="#">RX65N, RX651 Group Datasheet</a><br><a href="#">RX65N, RX651 Group Hrdw Manual</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                            | <a href="#">Integrated Circuits (ICs)</a>                                                    | Voltage - Supply (Vcc/Vdd)      | 2.7 V ~ 3.6 V                                                                                  |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                             | 176-LFQFP (24x24)                                                                            | Speed                           | 120MHz                                                                                         |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                              | RX65N                                                                                        | RAM Size                        | 640K x 8                                                                                       |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                 | FLASH                                                                                        | Program Memory Size             | 2MB (2M x 8)                                                                                   |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                         | DMA, LVD, POR, PWM, WDT                                                                      | Packaging                       | Tray                                                                                           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                      | 176-LQFP                                                                                     | Oscillator Type                 | Internal                                                                                       |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                               | -40°C ~ 85°C (TA)                                                                            | Number of I/O                   | 136                                                                                            |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                    | 3 (168 Hours)                                                                                | Manufacturer Standard Lead Time | 24 Weeks                                                                                       |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                      | Lead free / RoHS Compliant                                                                   | EEPROM Size                     | 32K x 8                                                                                        |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                | RXv2 RX65N Microcontroller IC 32-Bit 120MHz 2MB (2M x 8) FLASH 176-LFQFP (24x24)             | Data Converters                 | A/D 29x12b, D/A 2x12b                                                                          |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                           | 32-Bit                                                                                       | Core Processor                  | RXv2                                                                                           |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                        | CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, LINbus, MMC/SD, QSPI, SCI, SPI, UART/USART, USB |                                 |                                                                                                |
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|  | Part#: <a href="#">R5F571MFCDFP#30</a><br>Description: IC MCU 32BIT 2MB FLASH 100LFQFP  | Manufacturers: <a href="#">Renesas Electronics America</a> | <div>RFQ</div> |
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