

MC9RS08KB4CTG



Part Number: [MC9RS08KB4CTG](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 8BIT 4KB FLASH 16TSSOP

Data sheet:  [MC9RS08KBx Mask Errata](#)  
 [MC9RS08KB\(2,4,8,12\) Series Datasheet](#)  
 [MC9RS08KBx Ref Manual](#)

RoHs Status: Lead free / RoHS Compliant

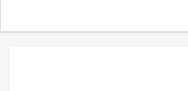
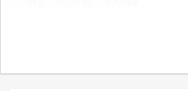
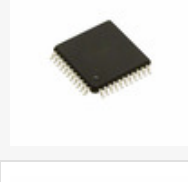
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Images are for reference only.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |                                  |                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MC9RS08KB4CTG                             | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                                          |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 8BIT 4KB FLASH 16TSSOP             | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                              |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 62739 pcs                                 | Data sheet                       | <a href="#">MC9RS08KBx Mask Errata</a><br><a href="#">MC9RS08KB(2,4,8,12) Series Datasheet</a><br><a href="#">MC9RS08KBx Ref Manual</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 1.8 V ~ 5.5 V                                                                                                                           |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 16-TSSOP                                  | Speed                            | 20MHz                                                                                                                                   |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RS08                                      | RAM Size                         | 126 x 8                                                                                                                                 |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FLASH                                     | Program Memory Size              | 4KB (4K x 8)                                                                                                                            |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LVD, POR, PWM, WDT                        | Packaging                        | Tube                                                                                                                                    |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 16-TSSOP (0.173", 4.40mm Width)           | Other Names                      | 935314115574                                                                                                                            |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Internal                                  | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                                                       |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14                                        | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                           |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10 Weeks                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                              |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                                         | Detailed Description             | RS08 RS08 Microcontroller IC 8-Bit 20MHz 4KB (4K x 8) FLASH 16-TSSOP                                                                    |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A/D 8x10b                                 | Core Size                        | 8-Bit                                                                                                                                   |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | RS08                                      | Connectivity                     | I <sup>2</sup> C, SPI                                                                                                                   |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MC9RS08KB4                                |                                  |                                                                                                                                         |
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|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------|
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|  | Part#: <a href="#">MC9RS08KB12CFK</a><br>Description: IC MCU 8BIT 12KB FLASH 24QFN     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08AC128CFUE</a><br>Description: IC MCU 8BIT 128KB FLASH 64QFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9RS08KB2CSC</a><br>Description: IC MCU 8BIT 2KB FLASH 8SOIC       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MC9RS08KB12CTG</a><br>Description: IC MCU 8BIT 12KB FLASH 16TSSOP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9RS08KB12CSG</a><br>Description: IC MCU 8BIT 12KB FLASH 16SOIC    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9RS08KB12CWJ</a><br>Description: IC MCU 8BIT 12KB FLASH 20SOIC    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9RS08KB2CDC</a><br>Description: IC MCU 8BIT 2KB FLASH 8QFN        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MC9RS08KB8CWJ</a><br>Description: IC MCU 8BIT 8KB FLASH 20SOIC      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MC9S08AC128CFGER</a><br>Description: S08AC 8-BIT MCU S08 CORE 128KB | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08AC128CFGE</a><br>Description: IC MCU 8BIT 128KB FLASH 44LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9RS08KB2CSCR</a><br>Description: RS08KB 8-BIT MCU RS08 CORE 2KB   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9RS08LA8CLF</a><br>Description: IC MCU 8BIT 8KB FLASH 48LQFP      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9RS08LE4CWL</a><br>Description: IC MCU 8BIT 4KB FLASH 28SOIC      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |

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