

MC9S08AC16CFDE



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Part Number: [MC9S08AC16CFDE](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 8BIT 16KB FLASH 48QFN

Data sheet:  [MC9S08AC16 Fact Sheet](#)  
 [MC9S08AC\(8,16\), MC9S08AW\(8,16\)](#)  
 [1N49A Mask Set Errata](#)  
 [1N50A Mask Set Errata](#)

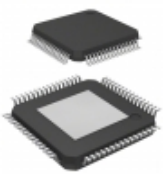
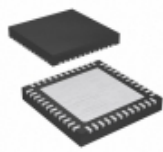
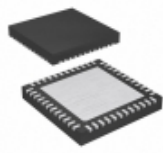
RoHs Status: Lead free / RoHS Compliant

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                                  |                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MC9S08AC16CFDE                            | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                                                                            |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 8BIT 16KB FLASH 48QFN              | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 37142 pcs                                 | Data sheet                       | <a href="#">MC9S08AC16 Fact Sheet</a><br><a href="#">MC9S08AC(8,16), MC9S08AW(8,16)</a><br><a href="#">1N49A Mask Set Errata</a><br><a href="#">1N50A Mask Set Errata</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 2.7 V ~ 5.5 V                                                                                                                                                             |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 48-QFN-EP (7x7)                           | Speed                            | 40MHz                                                                                                                                                                     |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | S08                                       | RAM Size                         | 1K x 8                                                                                                                                                                    |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                     | Program Memory Size              | 16KB (16K x 8)                                                                                                                                                            |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LVD, POR, PWM, WDT                        | Packaging                        | Tray                                                                                                                                                                      |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 48-VFQFN Exposed Pad                      | Other Names                      | 935319385557                                                                                                                                                              |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Internal                                  | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                                                                                         |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 38                                        | 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             | S08 S08 Microcontroller IC 8-Bit 40MHz 16KB (16K x 8) FLASH 48-QFN-EP (7x7)                                                                                               |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A/D 8x10b                                 | Core Size                        | 8-Bit                                                                                                                                                                     |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | S08                                       | Connectivity                     | PC, SCI, SPI                                                                                                                                                              |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MC9S08AC16                                |                                  |                                                                                                                                                                           |
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| RELATED PRODUCTS                                                                   |                                                                                        |                                                               |                |
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|  | Part#: <a href="#">MC9S08AC128CFUER</a><br>Description: S08AC 8-BIT MCU S08 CORE 128KB | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08AC16MFJE</a><br>Description: IC MCU 8BIT 16KB FLASH 32LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MC9S08AC128MFGE</a><br>Description: IC MCU 8BIT 128KB FLASH 44LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MC9S08AC16CBE</a><br>Description: IC MCU 8BIT 16KB FLASH 42PSDIP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08AC128MLKE</a><br>Description: IC MCU 8BIT 128KB FLASH 80LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08AC16MFDE</a><br>Description: IC MCU 8BIT 16KB FLASH 48QFN     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08AC32CFDE</a><br>Description: IC MCU 8BIT 32KB FLASH 48QFN     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08AC16MFGE</a><br>Description: IC MCU 8BIT 16KB FLASH 44LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08AC128CLKE</a><br>Description: IC MCU 8BIT 128KB FLASH 80LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08AC16CFGER</a><br>Description: IC MCU 8BIT 16KB FLASH 44LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08AC16MBE</a><br>Description: IC MCU 8BIT 16KB FLASH 42PSDIP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08AC16CFJER</a><br>Description: IC MCU 8BIT 16KB FLASH 32LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08AC16CFJE</a><br>Description: IC MCU 8BIT 16KB FLASH 32LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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