

MC9S08AC96CLKE



**Part Number:** [MC9S08AC96CLKE](#)

**Manufacturer:** [NXP Semiconductors / Freescale](#)

**Description:** IC MCU 8BIT 96KB FLASH 80LQFP

**Data sheet:**  [IN79A Mask Set Errata](#)  
 [MC9S08AC128,96](#)  
 [1M72Y Mask Set Errata](#)

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

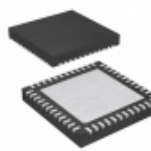
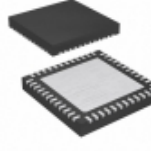
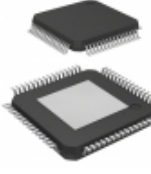
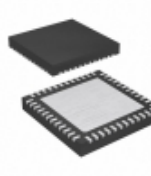
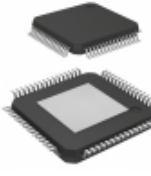
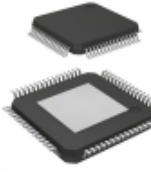
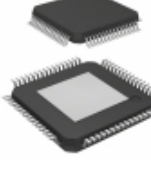
**Ship From:** Hong Kong

**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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MC9S08AC96CLKE                                                              | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                   |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 8BIT 96KB FLASH 80LQFP                                               | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                       |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 17628 pcs                                                                   | Data sheet                       | <a href="#">IN79A Mask Set Errata</a><br><a href="#">MC9S08AC128,96</a><br><a href="#">1M72Y Mask Set Errata</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a>                                   | Voltage - Supply (Vcc/Vdd)       | 2.7 V ~ 5.5 V                                                                                                    |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 80-LQFP (14x14)                                                             | Speed                            | 40MHz                                                                                                            |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | S08                                                                         | RAM Size                         | 6K x 8                                                                                                           |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                                                       | Program Memory Size              | 96KB (96K x 8)                                                                                                   |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LVD, POR, PWM, WDT                                                          | Packaging                        | Tray                                                                                                             |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 80-LQFP                                                                     | Other Names                      | 935321284557                                                                                                     |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Internal                                                                    | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                                |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 69                                                                          | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                    |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lead free / RoHS Compliant                                                  | EEPROM Size                      | -                                                                                                                |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | S08 S08 Microcontroller IC 8-Bit 40MHz 96KB (96K x 8) FLASH 80-LQFP (14x14) | Data Converters                  | A/D 16x10b                                                                                                       |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8-Bit                                                                       | Core Processor                   | S08                                                                                                              |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | I <sup>2</sup> C, LINbus, SCI, SPI                                          | Base Part Number                 | MC9S08AC96                                                                                                       |
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| RELATED PRODUCTS                                                                   |                                                                                      |                                                               |                     |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------|
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|  | Part#: <a href="#">MC9S08AW16CPUE</a><br>Description: IC MCU 8BIT 16KB FLASH 64LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MC9S08AW16MFDE</a><br>Description: IC MCU 8BIT 16KB FLASH 48QFN   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MC9S08AW16CFGE</a><br>Description: IC MCU 8BIT 16KB FLASH 44LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MC9S08AC96MFUE</a><br>Description: IC MCU 8BIT 96KB FLASH 64QFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MC9S08AC8CFJE</a><br>Description: IC MCU 8BIT 8KB FLASH 32LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MC9S08AC96CFGE</a><br>Description: IC MCU 8BIT 96KB FLASH 44LQFP  | Manufacturers: <a href="#">NXP USA Inc.</a>                   | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MC9S08AC8MFJER</a><br>Description: IC MCU 8BIT 8KB FLASH 32LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MC9S08AW16CFDE</a><br>Description: IC MCU 8BIT 16KB FLASH 48QFN   | Manufacturers: <a href="#">NXP USA Inc.</a>                   | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MC9S08AC96MFGE</a><br>Description: IC MCU 8BIT 96KB FLASH 44LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MC9S08AC96MLKE</a><br>Description: IC MCU 8BIT 96KB FLASH 80LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MC9S08AW16CFUE</a><br>Description: IC MCU 8BIT 16KB FLASH 64QFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MC9S08AC8MFGE</a><br>Description: IC MCU 8BIT 8KB FLASH 44LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MC9S08AC96CFGER</a><br>Description: S08AC 8-BIT MCU S08 CORE 96KB | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MC9S08AW16MFGE</a><br>Description: IC MCU 8BIT 16KB FLASH 44LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MC9S08AC96CFUE</a><br>Description: IC MCU 8BIT 96KB FLASH 64QFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MC9S08AW16CFGER</a><br>Description: IC MCU 8BIT 16KB FLASH 44LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MC9S08AC96CFUER</a><br>Description: 96K FLASH 8K RAM              | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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