

MC9S08QA2CPAE



Part Number: [MC9S08QA2CPAE](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 8BIT 2KB FLASH 8DIP

Data sheet:  [MC9S08QA2,4 Ref Manual](#)  
 [MC9S08QA2,4 Ref Manual](#)

RoHs Status: Lead free / RoHS Compliant

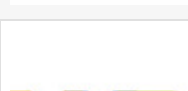
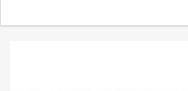
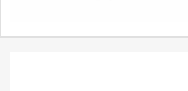
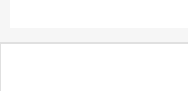
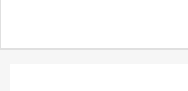
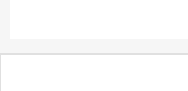
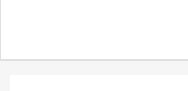
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |                                  |                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MC9S08QA2CPAE                                                    | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                   |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 8BIT 2KB FLASH 8DIP                                       | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                       |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 38500 pcs                                                        | Data sheet                       | <a href="#">MC9S08QA2,4 Ref Manual</a><br><a href="#">MC9S08QA2,4 Ref Manual</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a>                        | Voltage - Supply (Vcc/Vdd)       | 1.8 V ~ 3.6 V                                                                    |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8-PDIP                                                           | Speed                            | 20MHz                                                                            |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | S08                                                              | RAM Size                         | 160 x 8                                                                          |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FLASH                                                            | Program Memory Size              | 2KB (2K x 8)                                                                     |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LVD, POR, PWM, WDT                                               | Packaging                        | Tube                                                                             |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8-DIP (0.300", 7.62mm)                                           | Other Names                      | 935321315174                                                                     |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Internal                                                         | Operating Temperature            | -40°C ~ 85°C (TA)                                                                |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4                                                                | 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 20MHz 2KB (2K x 8) FLASH 8-PDIP | Data Converters                  | A/D 4x10b                                                                        |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8-Bit                                                            | Core Processor                   | S08                                                                              |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                                | Base Part Number                 | MC9S08QA2                                                                        |
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|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------|
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|  | Part#: <a href="#">MC9S08PT8VWJ</a><br>Description: IC MCU 8BIT 8KB FLASH 20SOIC     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08PT8VTG</a><br>Description: IC MCU 8BIT 8KB FLASH 16TSSOP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08PT8VLC</a><br>Description: IC MCU 8BIT 8KB FLASH 32LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08PT8VLD</a><br>Description: S08PT 8-BIT MCU S08 CORE 8KB F   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08QA2CDNE</a><br>Description: IC MCU 8BIT 2KB FLASH 8SOIC     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08QB4CTG</a><br>Description: IC MCU 8BIT 4KB FLASH 16TSSOP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08QA4CPAE</a><br>Description: IC MCU 8BIT 4KB FLASH 8DIP      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MC9S08QA2CFQE</a><br>Description: IC MCU 8BIT 2KB FLASH 8QFN      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08PT8VTJ</a><br>Description: S08PT 8-BIT MCU S08 CORE 8KB F   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08QB4CGK</a><br>Description: IC MCU 8BIT 4KB FLASH 24QFN      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08QA4CDNE</a><br>Description: IC MCU 8BIT 4KB FLASH 8SOIC     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08QA4CFQE</a><br>Description: IC MCU 8BIT 4KB FLASH 8QFN      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08QB8CGK</a><br>Description: IC MCU 8BIT 8KB FLASH 24QFN      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08QA4CFQER</a><br>Description: S08QA 8-BIT MCU S08 CORE 4KB F | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08PT8AVTJ</a><br>Description: IC MCU 8BIT 8KB FLASH 20TSSOP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08PT8AVWJ</a><br>Description: IC MCU 8BIT 8KB FLASH 20SOIC    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S08PT8AVTG</a><br>Description: IC MCU 8BIT 8KB FLASH 16TSSOP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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