

MC9S08PT16AVLC



Part Number: [MC9S08PT16AVLC](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 8BIT 16KB FLASH 32LQFP

Data sheet:  [MC9S08PT16\(A\), MC9S08PT8\(A\) Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

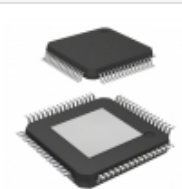
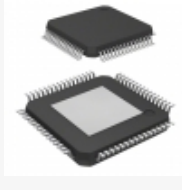
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                           |                                  |                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MC9S08PT16AVLC                                                            | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>        |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 8BIT 16KB FLASH 32LQFP                                             | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                            |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 67198 pcs                                                                 | Data sheet                       | <a href="#">MC9S08PT16(A), MC9S08PT8(A) Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a>                                 | Voltage - Supply (Vcc/Vdd)       | 2.7 V ~ 5.5 V                                         |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 32-LQFP (7x7)                                                             | Speed                            | 20MHz                                                 |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | S08                                                                       | RAM Size                         | 2K x 8                                                |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                                                     | Program Memory Size              | 16KB (16K x 8)                                        |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LVD, POR, PWM, WDT                                                        | Packaging                        | Tray                                                  |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 32-LQFP                                                                   | Other Names                      | 568-14298<br>935312289557<br>MC9S08PT16AVLC-ND        |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Internal                                                                  | Operating Temperature            | -40°C ~ 105°C (TA)                                    |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 28                                                                        | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                         |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lead free / RoHS Compliant                                                | EEPROM Size                      | 256 x 8                                               |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | S08 S08 Microcontroller IC 8-Bit 20MHz 16KB (16K x 8) FLASH 32-LQFP (7x7) | Data Converters                  | A/D 12x12b                                            |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8-Bit                                                                     | Core Processor                   | S08                                                   |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | I <sup>2</sup> C, LINbus, SPI, UART/USART                                 |                                  |                                                       |
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