

MC9S12C32MPBE16



Part Number: [MC9S12C32MPBE16](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 16BIT 32KB FLASH 52LQFP

Data sheet:  [MC9S12C,GC Family](#)  
 [MC9S12C32 Fact Sheet](#)  
 [MC9S12C32 Prod Brief](#)

RoHs Status: Lead free / RoHS Compliant

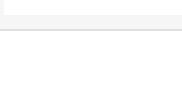
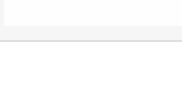
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                                |                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MC9S12C32MPBE16                           | Manufacturer                   | <a href="#">NXP Semiconductors / Freescale</a>                                                                    |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 16BIT 32KB FLASH 52LQFP            | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                        |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4462 pcs                                  | Data sheet                     | <a href="#">MC9S12C,GC Family</a><br><a href="#">MC9S12C32 Fact Sheet</a><br><a href="#">MC9S12C32 Prod Brief</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 2.35 V ~ 5.5 V                                                                                                    |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 52-TQFP (10x10)                           | Speed                          | 16MHz                                                                                                             |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HCS12                                     | RAM Size                       | 2K x 8                                                                                                            |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                     | Program Memory Size            | 32KB (32K x 8)                                                                                                    |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | POR, PWM, WDT                             | Packaging                      | Tray                                                                                                              |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 52-LQFP                                   | Oscillator Type                | Internal                                                                                                          |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -40°C ~ 125°C (TA)                        | Number of I/O                  | 35                                                                                                                |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                        |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                         | Detailed Description           | HCS12 HCS12 Microcontroller IC 16-Bit 16MHz 32KB (32K x 8) FLASH 52-TQFP (10x10)                                  |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A/D 8x10b                                 | Core Size                      | 16-Bit                                                                                                            |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | HCS12                                     | Connectivity                   | CANbus, EBI/EMI, SCI, SPI                                                                                         |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MC9S12C32                                 |                                |                                                                                                                   |
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|  | Part#: <a href="#">MC9S12C32VFUE25</a><br>Description: IC MCU 16BIT 32KB FLASH 80QFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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