

MC9S12GC64MFAE



Part Number: [MC9S12GC64MFAE](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 16BIT 64KB FLASH 48LQFP

Data sheet:  [MC9S12C,GC Family](#)

RoHs Status: Lead free / RoHS Compliant

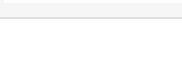
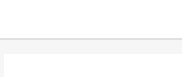
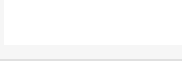
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                |                                  |                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                               | MC9S12GC64MFAE                                                                 | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a> |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                               | IC MCU 16BIT 64KB FLASH 48LQFP                                                 | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                     |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                        | 10953 pcs                                                                      | Data sheet                       | <a href="#">MC9S12C,GC Family</a>              |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">Integrated Circuits (ICs)</a>                                      | Voltage - Supply (Vcc/Vdd)       | 2.35 V ~ 5.5 V                                 |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                   | 48-LQFP (7x7)                                                                  | Speed                            | 25MHz                                          |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                    | HCS12                                                                          | RAM Size                         | 4K x 8                                         |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                       | FLASH                                                                          | Program Memory Size              | 64KB (64K x 8)                                 |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                               | POR, PWM, WDT                                                                  | Packaging                        | Tray                                           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                            | 48-LQFP                                                                        | Other Names                      | 935321046557                                   |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                           | Internal                                                                       | Operating Temperature            | -40°C ~ 125°C (TA)                             |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                             | 31                                                                             | 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 25MHz 64KB (64K x 8) FLASH 48-LQFP (7x7) | Data Converters                  | A/D 8x10b                                      |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                 | 16-Bit                                                                         | Core Processor                   | HCS12                                          |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                              | EBI/EMI, SCI, SPI                                                              | Base Part Number                 | MC9S12GC64                                     |
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