

MC9S12XEP100CAG



Part Number: [MC9S12XEP100CAG](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 16BIT 1MB FLASH 144LQFP

Data sheet:  [MC9S12XE Family Brief](#)  
 [MC9S12XEP100, MC9S12XE Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

Shipment Way: DHL/Fedex/TNT/UPS/EMS

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See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                                  |                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MC9S12XEP100CAG                           | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                            |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 16BIT 1MB FLASH 144LQFP            | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5861 pcs                                  | Data sheet                       | <a href="#">MC9S12XE Family Brief</a><br><a href="#">MC9S12XEP100, MC9S12XE Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 1.72 V ~ 5.5 V                                                                            |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 144-LQFP (20x20)                          | Speed                            | 50MHz                                                                                     |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HCS12X                                    | RAM Size                         | 64K x 8                                                                                   |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                     | Program Memory Size              | 1MB (1M x 8)                                                                              |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LVD, POR, PWM, WDT                        | Packaging                        | Tray                                                                                      |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 144-LQFP                                  | Other Names                      | 935325222557                                                                              |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | External                                  | Operating Temperature            | -40°C ~ 85°C (TA)                                                                         |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 119                                       | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                             |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12 Weeks                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4K x 8                                    | Detailed Description             | HCS12X HCS12X Microcontroller IC 16-Bit 50MHz 1MB (1M x 8) FLASH 144-LQFP (20x20)         |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A/D 24x12b                                | Core Size                        | 16-Bit                                                                                    |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | HCS12X                                    | Connectivity                     | CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, SCI, SPI                                         |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MC9S12XEP100                              |                                  |                                                                                           |
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|  | Part#: <a href="#">MC9S12XEP768CAG</a><br>Description: IC MCU 16BIT 768KB FLASH 144LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MC9S12XDT512VAG</a><br>Description: IC MCU 16BIT 512KB FLASH 144LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S12XEG128CALR</a><br>Description: IC MCU 16BIT 128KB FLASH 112LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S12XEP100MAG</a><br>Description: IC MCU 16BIT 1MB FLASH 144LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S12XEP100CVL</a><br>Description: IC MCU 16BIT 1MB FLASH 208MAPBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S12XEP100MAL</a><br>Description: IC MCU 16BIT 1MB FLASH 112LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S12XEG128MAA</a><br>Description: IC MCU 16BIT 128KB FLASH 80QFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S12XEP768CAL</a><br>Description: IC MCU 16BIT 768KB FLASH 112LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC9S12XEP100MVL</a><br>Description: IC MCU 16BIT 1MB FLASH 208MAPBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MC9S12XDT512MAA</a><br>Description: IC MCU 16BIT 512KB FLASH 80QFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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