

MC9S12XDG128CAA



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**Part Number:** [MC9S12XDG128CAA](#)

**Manufacturer:** [NXP Semiconductors / Freescale](#)

**Description:** IC MCU 16BIT 128KB FLASH 80QFP

**Data sheet:**  [MC9S12XDP512 Datasheet](#)

**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                     |                                  |                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MC9S12XDG128CAA                                                                     | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a> |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 16BIT 128KB FLASH 80QFP                                                      | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                     |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9270 pcs                                                                            | Data sheet                       | <a href="#">MC9S12XDP512 Datasheet</a>         |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a>                                           | Voltage - Supply (Vcc/Vdd)       | 2.35 V ~ 5.5 V                                 |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 80-QFP (14x14)                                                                      | Speed                            | 80MHz                                          |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HCS12X                                                                              | RAM Size                         | 12K x 8                                        |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                                                               | Program Memory Size              | 128KB (128K x 8)                               |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LVD, POR, PWM, WDT                                                                  | Packaging                        | Tray                                           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 80-QFP                                                                              | Other Names                      | 935321073557                                   |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | External                                                                            | Operating Temperature            | -40°C ~ 85°C (TA)                              |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 59                                                                                  | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                  |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lead free / RoHS Compliant                                                          | EEPROM Size                      | 2K x 8                                         |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | HCS12X HCS12X Microcontroller IC 16-Bit 80MHz 128KB (128K x 8) FLASH 80-QFP (14x14) | Data Converters                  | A/D 8x10b                                      |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16-Bit                                                                              | Core Processor                   | HCS12X                                         |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, LINbus, SCI, SPI                           | Base Part Number                 | MC9S12XDG128                                   |
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