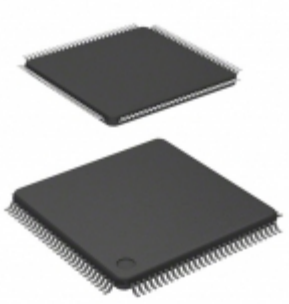


MC9S12XDG128MAL



Part Number: [MC9S12XDG128MAL](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 16BIT 128KB FLASH 112LQFP

Data sheet:  [MC9S12XDP512 Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

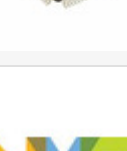
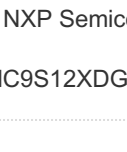
Ship From: Hong Kong

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

Images are for reference only.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                       |                                  |                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                               | MC9S12XDG128MAL                                                                       | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a> |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                               | IC MCU 16BIT 128KB FLASH 112LQFP                                                      | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                     |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                        | 9065 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                                                                                                                                                                                                                                                                                                                                                                                                                   | 112-LQFP (20x20)                                                                      | 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                                                                                                                                                                                                                                                                                                                                                                                                                            | 112-LQFP                                                                              | Other Names                      | 935325227557                                   |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                           | External                                                                              | Operating Temperature            | -40°C ~ 125°C (TA)                             |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                             | 91                                                                                    | 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 112-LQFP (20x20) | Data Converters                  | A/D 16x10b                                     |
| 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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|  | Part#: <a href="#">MC9S12XDG128CAA</a><br>Description: IC MCU 16BIT 128KB FLASH 80QFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | RFQ |
|  | Part#: <a href="#">MC9S12XD256VAA</a><br>Description: IC MCU 16BIT 256KB FLASH 80QFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | RFQ |
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|  | Part#: <a href="#">MC9S12XD256VAG</a><br>Description: IC MCU 16BIT 256KB FLASH 144LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | RFQ |
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|  | Part#: <a href="#">MC9S12XDP512MAL</a><br>Description: IC MCU 16BIT 512KB FLASH 112LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | RFQ |
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|  | Part#: <a href="#">MC9S12XDP512VAG</a><br>Description: IC MCU 16BIT 512KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | RFQ |
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|  | Part#: <a href="#">MC9S12XDP512VAL</a><br>Description: IC MCU 16BIT 512KB FLASH 112LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | RFQ |
|  | Part#: <a href="#">MC9S12XDP512CAG</a><br>Description: IC MCU 16BIT 512KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | RFQ |
|  | Part#: <a href="#">MC9S12XDP512CAL</a><br>Description: IC MCU 16BIT 512KB FLASH 112LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | RFQ |
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