

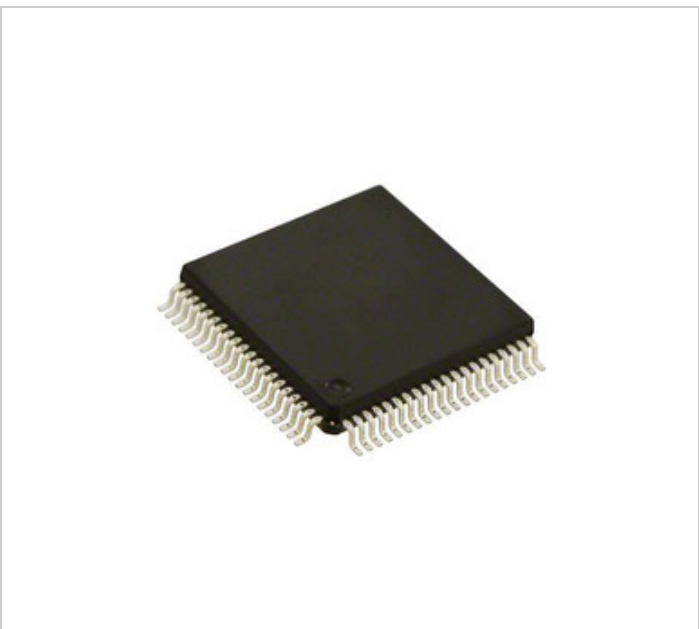


Image may be representation. See specifications for product details.

### MC9S12XDT512MAA

|                     |                                                                                                                       |
|---------------------|-----------------------------------------------------------------------------------------------------------------------|
| Part Number:        | MC9S12XDT512MAA                                                                                                       |
| Manufacturer/Brand: | NXP Semiconductors / Freescale                                                                                        |
| Product description | IC MCU 16BIT 512KB FLASH 80QFP                                                                                        |
| Datasheets:         |  <a href="#">MC9S12XDT512MAA.pdf</a> |
| RoHs Status         |  Lead free / RoHS Compliant          |
| Ship From           | Hong Kong                                                                                                             |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                                 |

REQUEST FOR QUOTATION

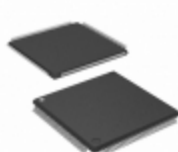
#### Specifications of MC9S12XDT512MAA

|                                  |                                                                                                                         |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | MC9S12XDT512MAA                                                                                                         |
| MANUFACTURER                     | NXP Semiconductors / Freescale                                                                                          |
| DESCRIPTION                      | IC MCU 16BIT 512KB FLASH 80QFP                                                                                          |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                              |
| DATA SHEET                       |  <a href="#">MC9S12XDT512MAA.pdf</a> |
| VOLTAGE - SUPPLY (VCC/VDD)       | 2.35 V ~ 5.5 V                                                                                                          |
| SUPPLIER DEVICE PACKAGE          | 80-QFP (14x14)                                                                                                          |
| SPEED                            | 80MHz                                                                                                                   |
| SERIES                           | HCS12X                                                                                                                  |
| RAM SIZE                         | 20K x 8                                                                                                                 |
| PROGRAM MEMORY TYPE              | FLASH                                                                                                                   |
| PROGRAM MEMORY SIZE              | 512KB (512K x 8)                                                                                                        |
| PERIPHERALS                      | LVD, POR, PWM, WDT                                                                                                      |
| PACKAGING                        | Tray                                                                                                                    |
| PACKAGE / CASE                   | 80-QFP                                                                                                                  |
| OTHER NAMES                      | 935319111557                                                                                                            |
| OSCILLATOR TYPE                  | External                                                                                                                |
| OPERATING TEMPERATURE            | -40°C ~ 125°C (TA)                                                                                                      |
| NUMBER OF I/O                    | 59                                                                                                                      |
| MOISTURE SENSITIVITY LEVEL (MSL) | 3 (168 Hours)                                                                                                           |
| MANUFACTURER STANDARD LEAD TIME  | 10 Weeks                                                                                                                |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                              |
| EEPROM SIZE                      | 4K x 8                                                                                                                  |
| DETAILED DESCRIPTION             | HCS12X HCS12X Microcontroller IC 16-Bit 80MHz 512KB (512K 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                 | 9S12XDT512                                                                                                              |

#### Related Tags

|                                                |                                         |                                                    |
|------------------------------------------------|-----------------------------------------|----------------------------------------------------|
| NXP Semiconductors / Freescale MC9S12XDT512MAA | MC9S12XDT512MAA Distributor             | MC9S12XDT512MAA Supplier                           |
| MC9S12XDT512MAA Price                          | MC9S12XDT512MAA Pictures                | MC9S12XDT512MAA Image                              |
| MC9S12XDT512MAA PDF Datasheet                  | MC9S12XDT512MAA Download Datasheet      | MC9S12XDT512MAA Datasheet                          |
| MC9S12XDT512MAA Stock                          | Buy MC9S12XDT512MAA                     | Buy NXP Semiconductors / Freescale MC9S12XDT512MAA |
| NXP Semiconductors / Freescale MC9S12XDT512MAA | NXP Semiconductors / Freescale Supplier | NXP Semiconductors / Freescale Distributor         |
| NXP Semiconductors / Freescale MC9S12XDT512MAA | NXP Semiconductors MC9S12XDT512MAA      | Freescale MC9S12XDT512MAA                          |
| Freescale Semiconductor - NXP MC9S12XDT512MAA  | NXP USA Inc. MC9S12XDT512MAA            |                                                    |

#### Related Products

|                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                 |
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| <div></div> <div><b>MC9S12XDT512VAG</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 16BIT 512KB FLASH 144LQFP<br/>In stock: Out stock<br/><div>RFQ</div></div> | <div></div> <div><b>MC9S12XDT512CAA</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 16BIT 512KB FLASH 80QFP<br/>In stock: 413 pcs<br/><div>RFQ</div></div>     |
| <div></div> <div><b>MC9S12XEG128CAL</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 16BIT 128KB FLASH 112LQFP<br/>In stock: Out stock<br/><div>RFQ</div></div> | <div></div> <div><b>MC9S12XDT256VAL</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 16BIT 256KB FLASH 112LQFP<br/>In stock: 692 pcs<br/><div>RFQ</div></div>   |
| <div></div> <div><b>MC9S12XDT512CAG</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 16BIT 512KB FLASH 144LQFP<br/>In stock: 466 pcs<br/><div>RFQ</div></div>   | <div></div> <div><b>MC9S12XDT256VAG</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 16BIT 256KB FLASH 144LQFP<br/>In stock: Out stock<br/><div>RFQ</div></div> |
| <div></div> <div><b>MC9S12XDT512CAAR</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 16BIT 512KB FLASH 80QFP<br/>In stock: Out stock<br/><div>RFQ</div></div>  | <div></div> <div><b>MC9S12XDT512CAL</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 16BIT 512KB FLASH 112LQFP<br/>In stock: 287 pcs<br/><div>RFQ</div></div>   |
| <div></div> <div><b>MC9S12XDT512MAL</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 16BIT 512KB FLASH 112LQFP<br/>In stock: 2 pcs<br/><div>RFQ</div></div>     | <div></div> <div><b>MC9S12XDT512VAA</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 16BIT 512KB FLASH 80QFP<br/>In stock: Out stock<br/><div>RFQ</div></div>   |
| <div></div> <div><b>MC9S12XDT512VAL</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 16BIT 512KB FLASH 112LQFP<br/>In stock: Out stock<br/><div>RFQ</div></div> | <div></div> <div><b>MC9S12XDT512MAG</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 16BIT 512KB FLASH 144LQFP<br/>In stock: Out stock<br/><div>RFQ</div></div> |