

S912XEQ512F0MAL



Part Number: [S912XEQ512F0MAL](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: 16-BIT MCU S12X CORE 512KB FLA

Data sheet:  [MC9S12XE Family Brief](#)

RoHs Status:

Ship From: Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                       |                                  |                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | S912XEQ512F0MAL                                                                       | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a> |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 16-BIT MCU S12X CORE 512KB FLA                                                        | Lead Free Status / RoHS Status   |                                                |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6131 pcs                                                                              | Data sheet                       | <a href="#">MC9S12XE Family Brief</a>          |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a>                                             | Voltage - Supply (Vcc/Vdd)       | 1.72 V ~ 5.5 V                                 |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 112-LQFP (20x20)                                                                      | Speed                            | 50MHz                                          |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HCS12X                                                                                | RAM Size                         | 32K x 8                                        |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                                                                 | Program Memory Size              | 512KB (512K x 8)                               |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LVD, POR, PWM, WDT                                                                    | Packaging                        | Tray                                           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 112-LQFP                                                                              | Other Names                      | 935315011557                                   |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | External                                                                              | Operating Temperature            | -40°C ~ 125°C (TA)                             |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 91                                                                                    | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                  |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 14 Weeks                                                                              | EEPROM Size                      | 4K x 8                                         |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | HCS12X HCS12X Microcontroller IC 16-Bit 50MHz 512KB (512K x 8) FLASH 112-LQFP (20x20) | Data Converters                  | A/D 16x12b                                     |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16-Bit                                                                                | Core Processor                   | HCS12X                                         |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, SCI, SPI                                     |                                  |                                                |
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|  | Part#: <a href="#">S912XEQ512F1MAAR</a><br>Description: 16-BIT MCU S12X CORE 512KB FLA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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