

S912ZVLA12F0MLC



Part Number: [S912ZVLA12F0MLC](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 16BIT 128KB FLASH 32LQFP

Data sheet:  [MC9S12ZVL Family Ref Manual, Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

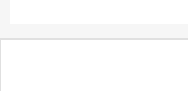
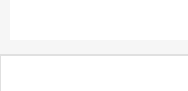
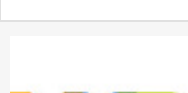
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                      |                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                | S912ZVLA12F0MLC                                                                      | Manufacturer <a href="#">NXP Semiconductors / Freescale</a>       |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                | IC MCU 16BIT 128KB FLASH 32LQFP                                                      | Lead Free Status / RoHS Status Lead free / RoHS Compliant         |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                         | 29312 pcs                                                                            | Data sheet <a href="#">MC9S12ZVL Family Ref Manual, Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                   | <a href="#">Integrated Circuits (ICs)</a>                                            | Voltage - Supply (Vcc/Vdd) 5.5 V ~ 18 V                           |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                    | 32-LQFP (7x7)                                                                        | Speed 32MHz                                                       |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                     | S12 MagniV                                                                           | RAM Size 1K x 8                                                   |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                        | FLASH                                                                                | Program Memory Size 128KB (128K x 8)                              |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                | LVD, POR, PWM, WDT                                                                   | Packaging Tray                                                    |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                             | 32-LQFP                                                                              | Other Names 935316407557                                          |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                            | Internal                                                                             | Operating Temperature -40°C ~ 125°C (TA)                          |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                              | 19                                                                                   | Moisture Sensitivity Level (MSL) 3 (168 Hours)                    |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                             | Lead free / RoHS Compliant                                                           | EEPROM Size 512 x 8                                               |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                       | S12Z S12 MagniV Microcontroller IC 16-Bit 32MHz 128KB (128K x 8) FLASH 32-LQFP (7x7) | Data Converters A/D 6x10b, A/D 1x8b                               |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                  | 16-Bit                                                                               | Core Processor S12Z                                               |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                               | CANbus, I <sup>2</sup> C, IrDA, LINbus, SCI, SPI, UART/USART                         |                                                                   |
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|  | Part#: <a href="#">S912ZVLA12F0MLFR</a><br>Description: IC MCU 16BIT 128KB FLASH 48LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a><br>RFQ |
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|  | Part#: <a href="#">S912ZVLA12F0MLF</a><br>Description: IC MCU 16BIT 128KB FLASH 48LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a><br>RFQ |
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|  | Part#: <a href="#">S912ZVL96F0VLF</a><br>Description: IC MCU 16BIT 96KB FLASH 48LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a><br>RFQ |
|  | Part#: <a href="#">S912ZVL64F0VLF</a><br>Description: IC MCU 16BIT 64KB FLASH 48LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a><br>RFQ |
|  | Part#: <a href="#">S912ZVLA12F0CLCR</a><br>Description: S12Z CPU 128K FLASH             | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a><br>RFQ |

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