

S9S12ZVL16F0MLC



Part Number: [S9S12ZVL16F0MLC](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: MAGNIV 16-BIT MCU S12Z CORE 16

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

RoHs Status:

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                    |                                  |                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | S9S12ZVL16F0MLC                                                                    | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>         |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MAGNIV 16-BIT MCU S12Z CORE 16                                                     | Lead Free Status / RoHS Status   |                                                        |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 48146 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              | 16KB (16K x 8)                                         |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LVD, POR, PWM, WDT                                                                 | Packaging                        | Tray                                                   |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 32-LQFP                                                                            | Other Names                      | 935320746557                                           |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Internal                                                                           | Operating Temperature            | -40°C ~ 125°C (TA)                                     |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 19                                                                                 | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                          |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 18 Weeks                                                                           | EEPROM Size                      | 128 x 8                                                |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | S12Z S12 MagniV Microcontroller IC 16-Bit 32MHz 16KB (16K x 8) FLASH 32-LQFP (7x7) | Data Converters                  | A/D 6x10b                                              |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 16-Bit                                                                             | Core Processor                   | S12Z                                                   |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | I²C, IrDA, LINbus, SCI, SPI, UART/USART                                            |                                  |                                                        |
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