

S9S12GN16F1VLC



Part Number: [S9S12GN16F1VLC](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 16BIT 16KB FLASH 32LQFP

Data sheet:  [S12G Family Fact Sheet](#)  
 [MC9S12G Family Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

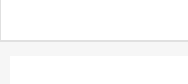
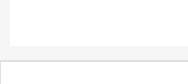
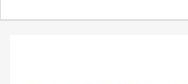
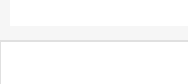
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                                  |                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | S9S12GN16F1VLC                            | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                     |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 16BIT 16KB FLASH 32LQFP            | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                         |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 48683 pcs                                 | Data sheet                       | <a href="#">S12G Family Fact Sheet</a><br><a href="#">MC9S12G Family Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 3.13 V ~ 5.5 V                                                                     |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 32-LQFP (7x7)                             | Speed                            | 25MHz                                                                              |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HCS12                                     | 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                      | 935317765557                                                                       |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Internal                                  | Operating Temperature            | -40°C ~ 105°C (TA)                                                                 |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 26                                        | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                      |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 14 Weeks                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                         |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 512 x 8                                   | Detailed Description             | 12V1 HCS12 Microcontroller IC 16-Bit 25MHz 16KB (16K x 8) FLASH 32-LQFP (7x7)      |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A/D 8x10b                                 | Core Size                        | 16-Bit                                                                             |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12V1                                      | Connectivity                     | IrDA, LINbus, SCI, SPI                                                             |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | S9S12GN16                                 |                                  |                                                                                    |
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|  | Part#: <a href="#">S9S12GN32ACLF</a><br>Description: 16-BIT32K FLASH2K RAM            | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">S9S12GN16F1VLCR</a><br>Description: IC MCU 16BIT 16KB FLASH 32LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12GN32ACFT</a><br>Description: 16-BIT,32K FLASH,2K RAM          | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|                                            |                                   |                                              |                             |
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