

S9S12GN48F0CLFR



Part Number: [S9S12GN48F0CLFR](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 16BIT 48KB FLASH 48LQFP

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

RoHs Status: Lead free / RoHS Compliant

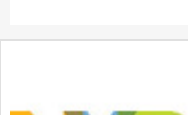
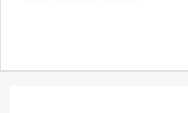
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                               |                                  |                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | S9S12GN48F0CLFR                                                               | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                     |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | IC MCU 16BIT 48KB FLASH 48LQFP                                                | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                         |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 47398 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 48-LQFP (7x7)                                                                 | Speed                            | 25MHz                                                                              |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | HCS12                                                                         | RAM Size                         | 4K x 8                                                                             |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FLASH                                                                         | Program Memory Size              | 48KB (48K x 8)                                                                     |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LVD, POR, PWM, WDT                                                            | Packaging                        | Tape & Reel (TR)                                                                   |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 48-LQFP                                                                       | Other Names                      | 935321874528                                                                       |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Internal                                                                      | Operating Temperature            | -40°C ~ 85°C (TA)                                                                  |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 40                                                                            | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                      |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Lead free / RoHS Compliant                                                    | EEPROM Size                      | 1.5K x 8                                                                           |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 12V1 HCS12 Microcontroller IC 16-Bit 25MHz 48KB (48K x 8) FLASH 48-LQFP (7x7) | Data Converters                  | A/D 12x10b                                                                         |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 16-Bit                                                                        | Core Processor                   | 12V1                                                                               |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IrDA, LINbus, SCI, SPI                                                        | Base Part Number                 | S9S12GN48                                                                          |
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|  | Part#: <a href="#">S9S12GN48BMLC</a><br>Description: S12 CORE64K FLASHAU              | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">S9S12GN48F0CLF</a><br>Description: IC MCU 16BIT 48KB FLASH 48LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">S9S12GN48F0MLF</a><br>Description: 16-BIT MCU S12 CORE 48KB FLASH  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">S9S12GN48BVLCR</a><br>Description: S12 CORE64K FLASHAU             | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">S9S12GN48F0VLH</a><br>Description: IC MCU 16BIT 48KB FLASH 64LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12GN48BMLCR</a><br>Description: S12 CORE64K FLASHAU             | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12GN48BCLC</a><br>Description: S12 CORE48K FLASH                | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12GN48F0VLF</a><br>Description: IC MCU 16BIT 48KB FLASH 48LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12GN48F0WLF</a><br>Description: 16-BIT MCU S12 CORE 48KB FLASH  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |

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