

S9S12G48F0CLH



Part Number: [S9S12G48F0CLH](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 16BIT 48KB FLASH 64LQFP

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

RoHs Status: Lead free / RoHS Compliant

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                 |                                  |                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | S9S12G48F0CLH                                                                   | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                     |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 16BIT 48KB FLASH 64LQFP                                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                         |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 35301 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 64-LQFP (10x10)                                                                 | 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                        | Tray                                                                               |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 64-LQFP                                                                         | Other Names                      | 935325774557                                                                       |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Internal                                                                        | Operating Temperature            | -40°C ~ 85°C (TA)                                                                  |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 54                                                                              | 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 64-LQFP (10x10) | Data Converters                  | A/D 12x10b                                                                         |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 16-Bit                                                                          | Core Processor                   | 12V1                                                                               |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CANbus, IrDA, LINbus, SCI, SPI                                                  |                                  |                                                                                    |
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|  | Part#: <a href="#">S9S12G48F1MLC</a><br>Description: IC MCU 16BIT 48KB FLASH 32LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12G48F0MLFR</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="#">S9S12G48F0MLH</a><br>Description: IC MCU 16BIT 48KB FLASH 64LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12G48F1CLCR</a><br>Description: 16-BIT MCU S12 CORE 48KB FLASH | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12G48F1MLCR</a><br>Description: 16-BIT MCU S12 CORE 48KB FLASH | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12G48BCLC</a><br>Description: S12 CORE,48K FLASH,AU            | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">S9S12G48BMLCR</a><br>Description: 16 BIT 48K FLASH 4KB RAM        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12G48BMLC</a><br>Description: 16 BIT 48K FLASH 4KB RAM         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12G48AMLHR</a><br>Description: 16BIT 48KFLASH 4096RAM          | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12G48F0MLHR</a><br>Description: IC MCU 16BIT 48KB FLASH 64LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">S9S12G48F0MLF</a><br>Description: IC MCU 16BIT 48KB FLASH 48LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12G48F0CLFR</a><br>Description: 16-BIT MCU S12 CORE 48KB FLASH | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12G48F1CLC</a><br>Description: IC MCU 16BIT 48KB FLASH 32LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12G48AMLH</a><br>Description: 16BIT 48KFLASH 4096RAM           | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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