

S9S12G96F0CLFR



Part Number: [S9S12G96F0CLFR](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 16BIT 96KB 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                    | S9S12G96F0CLFR                                                                | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                     |
| Description                    | IC MCU 16BIT 96KB FLASH 48LQFP                                                | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                         |
| Quantity Available             | 41665 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                         | 8K x 8                                                                             |
| Program Memory Type            | FLASH                                                                         | Program Memory Size              | 96KB (96K x 8)                                                                     |
| Peripherals                    | LVD, POR, PWM, WDT                                                            | Packaging                        | Tape & Reel (TR)                                                                   |
| Package / Case                 | 48-LQFP                                                                       | Other Names                      | 935310667528                                                                       |
| 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                      | 3K x 8                                                                             |
| Detailed Description           | 12V1 HCS12 Microcontroller IC 16-Bit 25MHz 96KB (96K x 8) FLASH 48-LQFP (7x7) | Data Converters                  | A/D 12x10b                                                                         |
| Core Size                      | 16-Bit                                                                        | Core Processor                   | 12V1                                                                               |
| Connectivity                   | CANbus, IrDA, LINbus, SCI, SPI                                                | Base Part Number                 | S9S12G96                                                                           |

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|  | Part#: <a href="#">S9S12G96ACLHR</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Description: 16BIT 96K FLASH                 |                                                               |                |
|  | Part#: <a href="#">S9S12G96F0MLHR</a>        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Description: IC MCU 16BIT 96KB FLASH 64LQFP  |                                                               |                |
|  | Part#: <a href="#">S9S12G96ACLL</a>          | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|                                                                                    | Description: 16BIT 96K FLASH                 |                                                               |                |
|  | Part#: <a href="#">S9S12G96F0MLFR</a>        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|                                                                                    | Description: 16-BIT MCU S12 CORE 96KB FLASH  |                                                               |                |
|  | Part#: <a href="#">S9S12G96AMLF</a>          | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|                                                                                    | Description: 16BIT 96K FLASH                 |                                                               |                |
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|  | Description: 16BIT 96K FLASH                 |                                                               |                |
|  | Part#: <a href="#">S9S12G96F0MLL</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 100LQFP |                                                               |                |
|  | Part#: <a href="#">S9S12G96F0VLFR</a>        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 48LQFP  |                                                               |                |
|  | Part#: <a href="#">S9S12G96F0CLH</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Description: IC MCU 16BIT 96KB FLASH 64LQFP  |                                                               |                |
|  | Part#: <a href="#">S9S12G96F0CLHR</a>        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Description: IC MCU 16BIT 96KB FLASH 64LQFP  |                                                               |                |
|  | Part#: <a href="#">S9S12G96F0MLH</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Description: IC MCU 16BIT 96KB FLASH 64LQFP  |                                                               |                |
|  | Part#: <a href="#">S9S12G96AVLF</a>          | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|                                                                                    | Description: 16BIT 96K FLASH                 |                                                               |                |
|  | Part#: <a href="#">S9S12G96F0MLF</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 48LQFP  |                                                               |                |
|  | Part#: <a href="#">S9S12G96AMLFR</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|                                                                                    | Description: 16BIT 96K FLASH                 |                                                               |                |
|  | Part#: <a href="#">S9S12G96AMLL</a>          | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|                                                                                    | Description: 16BIT 96K FLASH                 |                                                               |                |
|  | Part#: <a href="#">S9S12G96F0CLF</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 48LQFP  |                                                               |                |
|  | Part#: <a href="#">S9S12G96F0VLF</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 48LQFP  |                                                               |                |
|  | Part#: <a href="#">S9S12G96AVLFR</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|                                                                                    | Description: 16BIT 96K FLASH                 |                                                               |                |
|  | Part#: <a href="#">S9S12G96F0CLL</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 100LQFP |                                                               |                |
|  | Part#: <a href="#">S9S12G96AVLH</a>          | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Description: 16BIT 96K FLASH                 |                                                               |                |

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