

S9S12HY32J0MLL



Part Number: [S9S12HY32J0MLL](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 16BIT 32KB FLASH 100LQFP

Data sheet:  [MC9S12HY64 Ref Manual](#)

RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

Shipment Way: DHL/Fedex/TNT/UPS/EMS

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                   |                                  |                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | S9S12HY32J0MLL                                                                    | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a> |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 16BIT 32KB FLASH 100LQFP                                                   | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                     |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 24165 pcs                                                                         | Data sheet                       | <a href="#">MC9S12HY64 Ref Manual</a>          |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a>                                         | Voltage - Supply (Vcc/Vdd)       | 4.5 V ~ 5.5 V                                  |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 100-LQFP (14x14)                                                                  | Speed                            | 32MHz                                          |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HCS12                                                                             | RAM Size                         | 2K x 8                                         |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                                                             | Program Memory Size              | 32KB (32K x 8)                                 |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LCD, Motor control PWM, POR, PWM, WDT                                             | Packaging                        | Tray                                           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100-LQFP                                                                          | Other Names                      | 568-14236<br>935320194557<br>S9S12HY32J0MLL-ND |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Internal                                                                          | Operating Temperature            | -40°C ~ 125°C (TA)                             |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 80                                                                                | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                  |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lead free / RoHS Compliant                                                        | EEPROM Size                      | 4K x 8                                         |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | HCS12 HCS12 Microcontroller IC 16-Bit 32MHz 32KB (32K x 8) FLASH 100-LQFP (14x14) | Data Converters                  | A/D 8x10b                                      |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16-Bit                                                                            | Core Processor                   | HCS12                                          |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, LINbus, SCI, SPI                         | Base Part Number                 | S9S12HY32                                      |
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| RELATED PRODUCTS                                                                   |                                                                                          |                                                               |                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------|
|  | Part#: <a href="#">S9S12GNA32F0WLF</a><br>Description: IC MCU 16BIT 32KB FLASH 48LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12HA32J0VLHR</a><br>Description: 16-BIT MCU S12 CORE 32KB FLASH    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12HZ128J3CAL</a><br>Description: IC MCU 16BIT 128KB FLASH 112LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12HZ128J3VAL</a><br>Description: IC MCU 16BIT 128KB FLASH 112LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12HY32J0VLL</a><br>Description: 16-BIT MCU S12 CORE 32KB FLASH     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12H256J2VFVER</a><br>Description: IC MCU 16BIT 256KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12HY48J0CCL</a><br>Description: IC MCU 16BIT 48KB FLASH 100LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12HY32J0CLHR</a><br>Description: 16-BIT MCU S12 CORE 32KB FLASH    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12HY64J0CLLR</a><br>Description: 16-BIT MCU S12 CORE 64KB FLASH    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12HA48J0CCL</a><br>Description: IC MCU 16BIT 48KB FLASH 100LQFP    | Manufacturers: <a href="#">NXP USA Inc.</a>                   | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12HY32J0MLH</a><br>Description: IC MCU 16BIT 32KB FLASH 64LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12HY32J0CCL</a><br>Description: 16-BIT MCU S12 CORE 32KB FLASH     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12HY32J0CLH</a><br>Description: IC MCU 16BIT 32KB FLASH 64LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12HY64J0MLL</a><br>Description: IC MCU 16BIT 64KB FLASH 100LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12HA32J0CCL</a><br>Description: IC MCU 16BIT 32KB FLASH 100LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12HY48J0CLH</a><br>Description: 16BIT 48K FLASH 4K RAM             | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12HY64J0VLL</a><br>Description: IC MCU 16BIT 64KB FLASH 100LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12HY64J0CCL</a><br>Description: IC MCU 16BIT 64KB FLASH 100LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12HA32J0VLL</a><br>Description: 16-BIT MCU S12 CORE 32KB FLASH     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S9S12HY64J0MLH</a><br>Description: IC MCU 16BIT 64KB FLASH 64LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |

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