

MC9S12D64CFU



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**Part Number:** [MC9S12D64CFU](#)

**Manufacturer:** [NXP Semiconductors / Freescale](#)

**Description:** IC MCU 16BIT 64KB FLASH 80QFP

**Data sheet:**  [MC9S12DJ64 Guide](#)

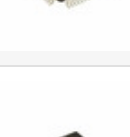
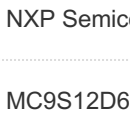
**RoHS Status:** Contains lead / RoHS non-compliant

**Ship From:** Hong Kong

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |                                |                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|---------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MC9S12D64CFU                              | Manufacturer                   | <a href="#">NXP Semiconductors / Freescale</a>                                  |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | IC MCU 16BIT 64KB FLASH 80QFP             | Lead Free Status / RoHS Status | Contains lead / RoHS non-compliant                                              |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4243 pcs                                  | Data sheet                     | <a href="#">MC9S12DJ64 Guide</a>                                                |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 2.35 V ~ 5.25 V                                                                 |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 80-QFP (14x14)                            | Speed                          | 25MHz                                                                           |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | HCS12                                     | RAM Size                       | 4K x 8                                                                          |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | FLASH                                     | Program Memory Size            | 64KB (64K x 8)                                                                  |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PWM, WDT                                  | Packaging                      | Tray                                                                            |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 80-QFP                                    | Oscillator Type                | Internal                                                                        |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -40°C ~ 85°C (TA)                         | Number of I/O                  | 59                                                                              |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Contains lead / RoHS non-compliant                                              |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1K x 8                                    | Detailed Description           | HCS12 HCS12 Microcontroller IC 16-Bit 25MHz 64KB (64K x 8) FLASH 80-QFP (14x14) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A/D 16x10b                                | Core Size                      | 16-Bit                                                                          |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | HCS12                                     | Connectivity                   | CANbus, I <sup>2</sup> C, SCI, SPI                                              |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MC9S12D64                                 |                                |                                                                                 |
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| RELATED PRODUCTS                                                                   |                                              |                                                               |                     |
|------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">MC9S12D64MPV</a>          | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 64KB FLASH 112LQFP |                                                               |                     |
|  | Part#: <a href="#">MC9S12D64MFUE</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 64KB FLASH 80QFP   |                                                               |                     |
|  | Part#: <a href="#">MC9S12D32CFUE</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 32KB FLASH 80QFP   |                                                               |                     |
|  | Part#: <a href="#">MC9S12C96MFUE</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 80QFP   |                                                               |                     |
|  | Part#: <a href="#">MC9S12C96MPBE</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 52LQFP  |                                                               |                     |
|  | Part#: <a href="#">MC9S12C96VPBER</a>        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 52LQFP  |                                                               |                     |
|  | Part#: <a href="#">MC9S12D64CPVE</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 64KB FLASH 112LQFP |                                                               |                     |
|  | Part#: <a href="#">MC9S12D64CFUER</a>        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 64KB FLASH 80QFP   |                                                               |                     |
|  | Part#: <a href="#">MC9S12D64VFU</a>          | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 64KB FLASH 80QFP   |                                                               |                     |
|  | Part#: <a href="#">MC9S12D64VPVE</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 64KB FLASH 112LQFP |                                                               |                     |
|  | Part#: <a href="#">MC9S12C96VPBE</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 52LQFP  |                                                               |                     |
|  | Part#: <a href="#">MC9S12D64MFU</a>          | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 64KB FLASH 80QFP   |                                                               |                     |
|  | Part#: <a href="#">MC9S12C96VFAE</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 48LQFP  |                                                               |                     |
|  | Part#: <a href="#">MC9S12D32MFUE</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 32KB FLASH 80QFP   |                                                               |                     |
|  | Part#: <a href="#">MC9S12D32VFUE</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 32KB FLASH 80QFP   |                                                               |                     |
|  | Part#: <a href="#">MC9S12D64VFUE</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 64KB FLASH 80QFP   |                                                               |                     |
|  | Part#: <a href="#">MC9S12C96MPBER</a>        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 52LQFP  |                                                               |                     |
|  | Part#: <a href="#">MC9S12D64MPVE</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 64KB FLASH 112LQFP |                                                               |                     |
|  | Part#: <a href="#">MC9S12D64CFUE</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 64KB FLASH 80QFP   |                                                               |                     |
|  | Part#: <a href="#">MC9S12C96VFUE</a>         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 80QFP   |                                                               |                     |

| Related keywords for MC9S12D64CFU           |                                 |                        |                                            |
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| NXP USA Inc. MC9S12D64CFU                   |                                 |                        |                                            |