

S912XDP512J1VAG



Part Number: [S912XDP512J1VAG](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: 16-BIT MCU S12X CORE 512KB FLA

Data sheet:

RoHs Status:

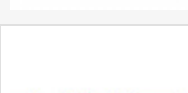
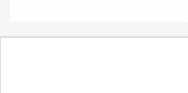
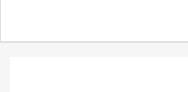
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                                  |                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | S912XDP512J1VAG                           | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                        |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 16-BIT MCU S12X CORE 512KB FLA            | Lead Free Status / RoHS Status   |                                                                                       |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4480 pcs                                  | Data sheet                       |                                                                                       |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 2.35 V ~ 5.5 V                                                                        |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 144-LQFP (20x20)                          | Speed                            | 80MHz                                                                                 |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HCS12X                                    | RAM Size                         | 32K x 8                                                                               |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                     | Program Memory Size              | 512KB (512K x 8)                                                                      |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LVD, POR, PWM, WDT                        | Packaging                        | Tray                                                                                  |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 144-LQFP                                  | Other Names                      | 935318077557                                                                          |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | External                                  | Operating Temperature            | -40°C ~ 105°C (TA)                                                                    |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 119                                       | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                         |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4K x 8                                    | Detailed Description             | HCS12X HCS12X Microcontroller IC 16-Bit 80MHz 512KB (512K x 8) FLASH 144-LQFP (20x20) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A/D 8x10b, 16x10b                         | Core Size                        | 16-Bit                                                                                |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | HCS12X                                    | Connectivity                     | CANbus, I <sup>2</sup> C, SCI, SPI                                                    |
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|  | Part#: <a href="#">S912XDQ256F1MAG</a><br>Description: IC MCU 16BIT 256KB FLASH 144LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">S912XDP512J1MALR</a><br>Description: 16-BIT MCU S12X CORE 512KB FLA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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