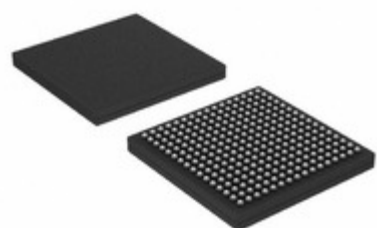


MCF5216CVM66J



Images are for reference only.  
See Product Specifications for product details.  
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**Part Number:** [MCF5216CVM66J](#)

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

**Description:** IC MCU 32BIT 512KB FLASH 256BGA

**Data sheet:**  [MCF5216, 5282 User's Manual](#)

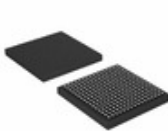
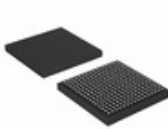
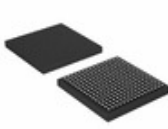
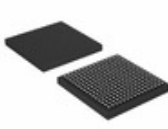
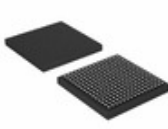
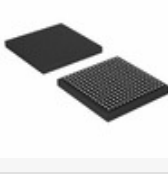
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                |                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MCF5216CVM66J                             | Manufacturer                   | <a href="#">NXP Semiconductors / Freescale</a>                                        |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | IC MCU 32BIT 512KB FLASH 256BGA           | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                            |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4065 pcs                                  | Data sheet                     | <a href="#">MCF5216, 5282 User's Manual</a>                                           |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 2.7 V ~ 3.6 V                                                                         |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 256-MAPBGA                                | Speed                          | 66MHz                                                                                 |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MCF521x                                   | RAM Size                       | 64K x 8                                                                               |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FLASH                                     | Program Memory Size            | 512KB (512K x 8)                                                                      |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DMA, LVD, POR, PWM, WDT                   | Packaging                      | Tray                                                                                  |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 256-LBGA                                  | Oscillator Type                | Internal                                                                              |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -40°C ~ 85°C (TA)                         | Number of I/O                  | 142                                                                                   |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                            |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                         | Detailed Description           | Coldfire V2 MCF521x Microcontroller IC 32-Bit 66MHz 512KB (512K x 8) FLASH 256-MAPBGA |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A/D 8x12b                                 | Core Size                      | 32-Bit                                                                                |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Coldfire V2                               | Connectivity                   | CANbus, EBI/EMI, I <sup>2</sup> C, SPI, UART/USART                                    |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MCF5216                                   |                                |                                                                                       |
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|  | Part#: <a href="#">MCF5213LCVM80</a><br>Description: IC MCU 32BIT 256KB FLASH 81BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF5214CVF66</a><br>Description: IC MCU 32BIT 256KB FLASH 256BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF5213LCVM66J</a><br>Description: IC MCU 32BIT 256KB FLASH 81BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF5214CVM66</a><br>Description: IC MCU 32BIT 256KB FLASH 256BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF5213LCVM80J</a><br>Description: IC MCU 32BIT 256KB FLASH 81BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF5216CVF66</a><br>Description: IC MCU 32BIT 512KB FLASH 256BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF5213LCVM66</a><br>Description: IC MCU 32BIT 256KB FLASH 81BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF5216CVF66J</a><br>Description: IC MCU 32BIT 512KB FLASH 256BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF52211CAF80</a><br>Description: IC MCU 32BIT 128KB FLASH 100LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF52210CVM66</a><br>Description: IC MCU 32BIT 64KB FLASH 81MAPBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF52210CVM80</a><br>Description: IC MCU 32BIT 64KB FLASH 81MAPBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF5214CVF66J</a><br>Description: IC MCU 32BIT 256KB FLASH 256BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF52211CVM66</a><br>Description: IC MCU 32BIT 128KB FLASH 81BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF52210CAE66</a><br>Description: IC MCU 32BIT 64KB FLASH 64LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF5216CVM66</a><br>Description: IC MCU 32BIT 512KB FLASH 256BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF52210CVM66J</a><br>Description: IC MCU 32BIT 64KB FLASH 81MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF52210CEP66</a><br>Description: IC MCU 32BIT 64KB FLASH 64QFN     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF52211CAE66</a><br>Description: IC MCU 32BIT 128KB FLASH 64LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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| NXP USA Inc. MCF5216CVM66J                   |                                  |                         |                                             |