

MCF51MM256VMB



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**Part Number:** [MCF51MM256VMB](#)

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

**Description:** IC MCU 32BIT 256KB FLASH 81BGA

**Data sheet:**  [MCF51MM256/128](#)

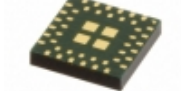
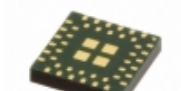
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                |                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MCF51MM256VMB                             | Manufacturer                   | <a href="#">NXP Semiconductors / Freescale</a>                                               |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | IC MCU 32BIT 256KB FLASH 81BGA            | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                   |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5777 pcs                                  | Data sheet                     | <a href="#">MCF51MM256/128</a>                                                               |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 1.8 V ~ 3.6 V                                                                                |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 81-MAPBGA (10x10)                         | Speed                          | 50MHz                                                                                        |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MCF51MM                                   | RAM Size                       | 32K x 8                                                                                      |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FLASH                                     | Program Memory Size            | 256KB (256K x 8)                                                                             |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LVD, PWM, WDT                             | Packaging                      | Tray                                                                                         |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81-LBGA                                   | Oscillator Type                | External                                                                                     |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -40°C ~ 105°C (TA)                        | Number of I/O                  | 48                                                                                           |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                   |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                         | Detailed Description           | Coldfire V1 MCF51MM Microcontroller IC 32-Bit 50MHz 256KB (256K x 8) FLASH 81-MAPBGA (10x10) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A/D 8x16b, D/A 1x12b                      | Core Size                      | 32-Bit                                                                                       |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Coldfire V1                               | Connectivity                   | CANbus, EBI/EMI, I <sup>2</sup> C, SCI, SPI, USB OTG                                         |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MCF51MM256                                |                                |                                                                                              |
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|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------|
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|  | Part#: <a href="#">MCF51QE128CLK</a><br>Description: IC MCU 32BIT 128KB FLASH 80LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF51QE96CLH</a><br>Description: IC MCU 32BIT 96KB FLASH 64LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MCF51MM256CLK</a><br>Description: IC MCU 32BIT 256KB FLASH 80LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MCF51MM128CLK</a><br>Description: IC MCU 32BIT 128KB FLASH 80LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF51QE32CLH</a><br>Description: IC MCU 32BIT 32KB FLASH 64LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MCF51QM128VHSR</a><br>Description: IC MCU 32BIT 128KB FLASH 44LGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF51MM256CML</a><br>Description: IC MCU 32BIT 256KB FLASH 104BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF51MM256VLL</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF51QE64CLH</a><br>Description: IC MCU 32BIT 64KB FLASH 64LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF51MM128VMB</a><br>Description: IC MCU 32BIT 128KB FLASH 81BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF51QE96CLK</a><br>Description: IC MCU 32BIT 96KB FLASH 80LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MCF51QE32LH</a><br>Description: IC MCU 32BIT 32KB FLASH 64LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCF51QM128VHS</a><br>Description: IC MCU 32BIT 128KB FLASH 44LGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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