

MCF51JE256CML



Part Number: [MCF51JE256CML](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 32BIT 256KB FLASH 104BGA

Data sheet:  [MCF51JE256/128](#)

RoHs Status: Lead free / RoHS Compliant

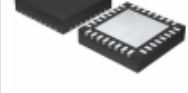
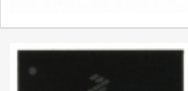
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |                                |                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                             | MCF51JE256CML                             | Manufacturer                   | <a href="#">NXP Semiconductors / Freescale</a>                                                |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 32BIT 256KB FLASH 104BGA           | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                    |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                      | 5164 pcs                                  | Data sheet                     | <a href="#">MCF51JE256/128</a>                                                                |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 1.8 V ~ 3.6 V                                                                                 |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                 | 104-MAPBGA (10x10)                        | Speed                          | 50MHz                                                                                         |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                  | MCF51JE                                   | RAM Size                       | 32K x 8                                                                                       |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                     | FLASH                                     | Program Memory Size            | 256KB (256K x 8)                                                                              |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                             | LVD, PWM, WDT                             | Packaging                      | Tray                                                                                          |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                          | 104-LFBGA                                 | Oscillator Type                | External                                                                                      |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                   | -40°C ~ 85°C (TA)                         | Number of I/O                  | 69                                                                                            |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                        | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                    |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                             | -                                         | Detailed Description           | Coldfire V1 MCF51JE Microcontroller IC 32-Bit 50MHz 256KB (256K x 8) FLASH 104-MAPBGA (10x10) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                         | A/D 12x12b, 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                                                                                                                                                                                                                                                                                                                                                                                                                        | MCF51JE256                                |                                |                                                                                               |
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|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------|
|  | Part#: <a href="#">MCF51JE256CLL</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCF51JE128VLK</a><br>Description: IC MCU 32BIT 128KB FLASH 80LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCF51JE256VLK</a><br>Description: IC MCU 32BIT 256KB FLASH 80LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MCF51JE256CMB</a><br>Description: IC MCU 32BIT 256KB FLASH 81BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MCF51JE128CLK</a><br>Description: IC MCU 32BIT 128KB FLASH 80LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCF51JE256CLK</a><br>Description: IC MCU 32BIT 256KB FLASH 80LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCF51JE256VML</a><br>Description: IC MCU 32BIT 256KB FLASH 104BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCF51JE256VLL</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCF51EM256CLL</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCF51JF64VLF</a><br>Description: IC MCU 32BIT 64KB FLASH 48LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCF51EM256CLLR</a><br>Description: MCF51EM 32-BIT MCU, COLDFIRE V1 | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCF51JE128VMB</a><br>Description: IC MCU 32BIT 128KB FLASH 81BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCF51JE256VMB</a><br>Description: IC MCU 32BIT 256KB FLASH 81BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCF51JF32VHS</a><br>Description: IC MCU 32BIT 32KB FLASH 44MAPLGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCF51JE128CMB</a><br>Description: IC MCU 32BIT 128KB FLASH 81BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCF51JF128VLH</a><br>Description: IC MCU 32BIT 128KB FLASH 64LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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