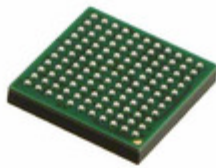


MK12DX256VMC5



Images are for reference only.  
See Product Specifications for product details.  
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**Part Number:** [MK12DX256VMC5](#)

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

**Description:** IC MCU 32BIT 256KB FLASH 121BGA

**Data sheet:**  [K12\\_MC5 Datasheet](#)  
 [K12\\_MC5 Ref Manual](#)  
 [K10 Family Fact Sheet](#)  
 [1N89E Mask Errata](#)

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

**Ship From:** Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |                                  |                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MK12DX256VMC5                             | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                                                        |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 32BIT 256KB FLASH 121BGA           | Lead Free Status / RoHS Status   | Contains lead / RoHS non-compliant                                                                                                                    |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 17530 pcs                                 | Data sheet                       | <a href="#">K12_MC5 Datasheet</a><br><a href="#">K12_MC5 Ref Manual</a><br><a href="#">K10 Family Fact Sheet</a><br><a href="#">1N89E Mask Errata</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 1.71 V ~ 3.6 V                                                                                                                                        |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 121-MAPBGA (8x8)                          | Speed                            | 50MHz                                                                                                                                                 |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Kinetis K10                               | RAM Size                         | 32K x 8                                                                                                                                               |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FLASH                                     | Program Memory Size              | 256KB (256K x 8)                                                                                                                                      |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DMA, I <sup>2</sup> S, LVD, POR, PWM, WDT | Packaging                        | Tray                                                                                                                                                  |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 121-LFBGA                                 | Other Names                      | 935325697557                                                                                                                                          |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Internal                                  | Operating Temperature            | -40°C ~ 105°C (TA)                                                                                                                                    |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 60                                        | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                         |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 13 Weeks                                  | Lead Free Status / RoHS Status   | Contains lead / RoHS non-compliant                                                                                                                    |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4K x 8                                    | Detailed Description             | ARM® Cortex®-M4 Kinetis K10 Microcontroller IC 32-Bit 50MHz 256KB (256K x 8) FLASH 121-MAPBGA (8x8)                                                   |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A/D 24x16b, D/A 1x12b                     | Core Size                        | 32-Bit                                                                                                                                                |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ARM® Cortex®-M4                           | Connectivity                     | I <sup>2</sup> C, IrDA, SPI, UART/USART                                                                                                               |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MK12DX256                                 |                                  |                                                                                                                                                       |
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| RELATED PRODUCTS                                                                   |                                                                                         |                                                               |                     |
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|  | Part#: <a href="#">MK12DN512VLK5R</a><br>Description: IC MCU 32BIT 512KB FLASH 80LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK12R1FE-R52</a><br>Description: RES 12.1 OHM 1/4W 1% AXIAL          | Manufacturers: <a href="#">Ohmite</a>                         | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK1301FE-R52</a><br>Description: RES 1.3K OHM 1/4W 1% AXIAL          | Manufacturers: <a href="#">Ohmite</a>                         | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK12DN512VLK5</a><br>Description: IC MCU 32BIT 512KB FLASH 80LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK13-1B90C-500W</a><br>Description: SENSOR REED SW SPST-NC W LEADS   | Manufacturers: <a href="#">Standex-Meder Electronics</a>      | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK13-1A66C-500W</a><br>Description: SENSOR REED SWITCH SPST-NO CABLE | Manufacturers: <a href="#">Standex-Meder Electronics</a>      | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK1303FE-R52</a><br>Description: RES 130K OHM 1/4W 1% AXIAL          | Manufacturers: <a href="#">Ohmite</a>                         | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK12DN512VMC5</a><br>Description: IC MCU 32BIT 512KB FLASH 121BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK1313FE-R52</a><br>Description: RES 131K OHM 1/4W 1% AXIAL          | Manufacturers: <a href="#">Ohmite</a>                         | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK12DX128VLK5</a><br>Description: IC MCU 32BIT 128KB FLASH 80LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK13-1A66B-500W</a><br>Description: SENSOR REED SWITCH SPST-NO CABLE | Manufacturers: <a href="#">Standex-Meder Electronics</a>      | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK12DX128VLH5</a><br>Description: IC MCU 32BIT 128KB FLASH 64LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK12DX128VLF5</a><br>Description: IC MCU 32BIT 128KB FLASH 48LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK12DX256VLF5</a><br>Description: IC MCU 32BIT 256KB FLASH 48LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK12DX128VMC5</a><br>Description: IC MCU 32BIT 128KB FLASH 121BGA    | Manufacturers: <a href="#">NXP USA Inc.</a>                   | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK1330FE-R52</a><br>Description: RES 133 OHM 1/4W 1% AXIAL           | Manufacturers: <a href="#">Ohmite</a>                         | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK1302FE-R52</a><br>Description: RES 13K OHM 1/4W 1% AXIAL           | Manufacturers: <a href="#">Ohmite</a>                         | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK12DX256VLK5</a><br>Description: IC MCU 32BIT 256KB FLASH 80LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK12DX256VLH5</a><br>Description: IC MCU 32BIT 256KB FLASH 64LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |

|                                           |                                |                                             |                                  |
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