

MK60DX256VLL10



**Part Number:** [MK60DX256VLL10](#)

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

**Description:** IC MCU 32BIT 256KB FLASH 100LQFP

**Data sheet:**  [K60 系列产品概述](#)  
 [K6x Family Fact Sheet](#)  
 [K60\\_LL10 Ref Manual](#)  
 [K60 Sub-Family](#)  
 [5N22D Mask Set Errata](#)

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

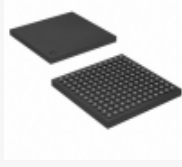
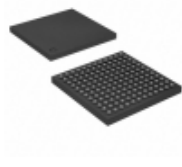
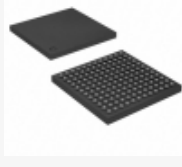
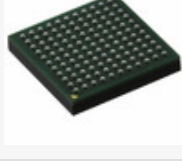
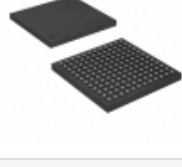
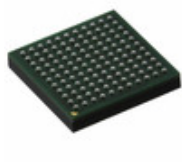
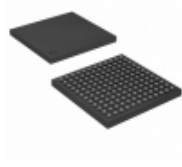
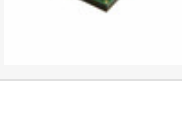
**Ship From:** Hong Kong

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

Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                                  |                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MK60DX256VLL10                            | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                                                                                        |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 32BIT 256KB FLASH 100LQFP          | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                            |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10099 pcs                                 | Data sheet                       | <a href="#">K60 系列产品概述</a><br><a href="#">K6x Family Fact Sheet</a><br><a href="#">K60_LL10 Ref Manual</a><br><a href="#">K60 Sub-Family</a><br><a href="#">5N22D Mask Set Errata</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 1.71 V ~ 3.6 V                                                                                                                                                                        |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 100-LQFP (14x14)                          | Speed                            | 100MHz                                                                                                                                                                                |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Kinetis K60                               | RAM Size                         | 64K 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100-LQFP                                  | Other Names                      | 935325655557                                                                                                                                                                          |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Internal                                  | Operating Temperature            | -40°C ~ 105°C (TA)                                                                                                                                                                    |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 66                                        | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                                                         |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 13 Weeks                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                            |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4K x 8                                    | Detailed Description             | ARM® Cortex®-M4 Kinetis K60 Microcontroller IC 32-Bit 100MHz 256KB (256K x 8) FLASH 100-LQFP (14x14)                                                                                  |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A/D 33x16b, D/A 1x12b                     | Core Size                        | 32-Bit                                                                                                                                                                                |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ARM® Cortex®-M4                           | Connectivity                     | CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, SD, SPI, UART/USART, USB, USB OTG                                                                                                  |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MK60DX256                                 |                                  |                                                                                                                                                                                       |
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| RELATED PRODUCTS                                                                   |                                                                                          |                                                               |                     |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">MK60DN512VMC10R</a><br>Description: KINETIS K60: 100MHZ CORTEX-M4 MC  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DN512ZVMD10</a><br>Description: IC MCU 32BIT 512KB FLASH 144BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DN512VMD10</a><br>Description: IC MCU 32BIT 512KB FLASH 144BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DX256ZVMD10</a><br>Description: IC MCU 32BIT 256KB FLASH 144BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DX256VLQ10</a><br>Description: IC MCU 32BIT 256KB FLASH 144LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DX256VMC10</a><br>Description: IC MCU 32BIT 256KB FLASH 121BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60FN1M0VMD12</a><br>Description: IC MCU 32BIT 1MB FLASH 144MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DX256ZVLL10</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DN512VMC10</a><br>Description: IC MCU 32BIT 512KB FLASH 121BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MK60DX256VMD10</a><br>Description: IC MCU 32BIT 256KB FLASH 144BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60FN1M0VLQ12</a><br>Description: IC MCU 32BIT 1MB FLASH 144LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DX256ZVLQ10</a><br>Description: IC MCU 32BIT 256KB FLASH 144LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60FN1M0VLQ15</a><br>Description: IC MCU 32BIT 1MB FLASH 144LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DN512ZAB10R</a><br>Description: IC MCU 32BIT 512KB FLASH 120CSP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DN512ZCAB10R</a><br>Description: IC MCU 32BIT 512KB FLASH 120CSP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DN512ZVLL10</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DX256ZVMC10</a><br>Description: IC MCU 32BIT 256KB FLASH 121BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DN512ZVLQ10</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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