

MK60DN256VMD10



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**Part Number:** [MK60DN256VMD10](#)

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

**Description:** IC MCU 32BIT 256KB FLASH 144BGA

**Data sheet:**  [K60\\_LQ/MD10 Ref Manual](#)  
 [K6x Family Fact Sheet](#)  
 [K60\\_LQ/MD10 Datasheet](#)  
 [5N22D Mask Set Errata](#)

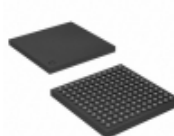
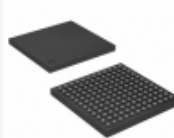
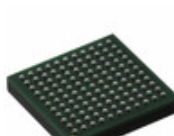
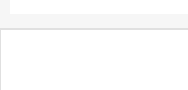
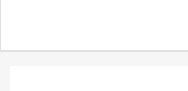
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                                  |                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MK60DN256VMD10                            | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                                                                    |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 32BIT 256KB FLASH 144BGA           | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                        |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10345 pcs                                 | Data sheet                       | <a href="#">K60_LQ/MD10 Ref Manual</a><br><a href="#">K6x Family Fact Sheet</a><br><a href="#">K60_LQ/MD10 Datasheet</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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 144-MAPBGA (13x13)                        | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 144-LBGA                                  | Other Names                      | 935321762557                                                                                                                                                      |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Internal                                  | Operating Temperature            | -40°C ~ 105°C (TA)                                                                                                                                                |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 100                                       | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                                     |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 13 Weeks                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                        |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                         | Detailed Description             | ARM® Cortex®-M4 Kinetis K60 Microcontroller IC 32-Bit 100MHz 256KB (256K x 8) FLASH 144-MAPBGA (13x13)                                                            |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A/D 42x16b, D/A 2x12b                     | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MK60DN256                                 |                                  |                                                                                                                                                                   |
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| RELATED PRODUCTS                                                                   |                                                                                          |                                                               |                     |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">MK60DN512ZVLQ10</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DN512ZVMC10</a><br>Description: IC MCU 32BIT 512KB FLASH 121BGA   | 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="#">MK60DN512ZVMD10</a><br>Description: IC MCU 32BIT 512KB FLASH 144BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | 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="#">MK60DN512ZVLQ10R</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DN256VMC10</a><br>Description: IC MCU 32BIT 256KB FLASH 121BGA    | 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="#">MK60DN256ZVLL10</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DN256ZVLQ10</a><br>Description: IC MCU 32BIT 256KB FLASH 144LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DN512VLQ10</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DN512VLL10</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DN256VLL10R</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK60DN512VLL10R</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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|  | 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="#">MK6040FE-R52</a><br>Description: RES 604 OHM 1/4W 1% AXIAL            | Manufacturers: <a href="#">Ohmite</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> |

Related keywords for MK60DN256VMD10

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