

MK10DX256ZVLQ10



Part Number: [MK10DX256ZVLQ10](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 32BIT 256KB FLASH 144LQFP

Data sheet:  [K10\\_ZLQ/ZMD10 Ref Manual](#)  
 [K10\\_ZLQ/ZMD10 Datasheet](#)  
 [K10 Family Fact Sheet](#)

RoHs Status: Lead free / RoHS Compliant

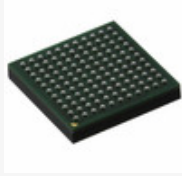
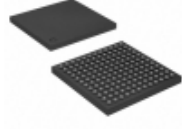
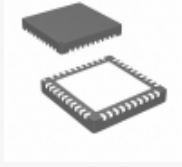
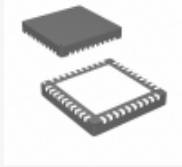
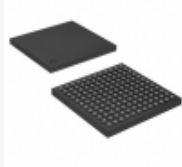
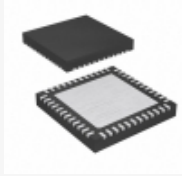
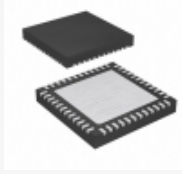
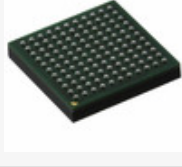
Ship From: Hong Kong

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Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                      |                                  |                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MK10DX256ZVLQ10                                                                                      | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                               |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | IC MCU 32BIT 256KB FLASH 144LQFP                                                                     | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                   |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 12832 pcs                                                                                            | Data sheet                       | <a href="#">K10_ZLQ/ZMD10 Ref Manual</a><br><a href="#">K10_ZLQ/ZMD10 Datasheet</a><br><a href="#">K10 Family Fact Sheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">Integrated Circuits (ICs)</a>                                                            | Voltage - Supply (Vcc/Vdd)       | 1.71 V ~ 3.6 V                                                                                                               |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 144-LQFP (20x20)                                                                                     | Speed                            | 100MHz                                                                                                                       |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Kinetis K10                                                                                          | 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-LQFP                                                                                             | Other Names                      | 935319788557                                                                                                                 |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Internal                                                                                             | Operating Temperature            | -40°C ~ 105°C (TA)                                                                                                           |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 104                                                                                                  | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Lead free / RoHS Compliant                                                                           | EEPROM Size                      | 4K x 8                                                                                                                       |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ARM® Cortex®-M4 Kinetis K10 Microcontroller IC 32-Bit 100MHz 256KB (256K x 8) FLASH 144-LQFP (20x20) | Data Converters                  | A/D 46x16b, D/A 2x12b                                                                                                        |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 32-Bit                                                                                               | Core Processor                   | ARM® Cortex®-M4                                                                                                              |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, SD, SPI, UART/USART                                         | Base Part Number                 | MK10DX256                                                                                                                    |
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| RELATED PRODUCTS                                                                   |                                                                                          |                                                               |                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------|
|  | Part#: <a href="#">MK10DX256VLK7</a><br>Description: IC MCU 32BIT 256KB FLASH 80LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX256VLH7R</a><br>Description: IC MCU 32BIT 256KB FLASH 64LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX64VLF5</a><br>Description: IC MCU 32BIT 64KB FLASH 48LQFP       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX256VMC7</a><br>Description: IC MCU 32BIT 256KB FLASH 121BGA     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX256VMD10</a><br>Description: IC MCU 32BIT 256KB FLASH 144BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX32VFM5</a><br>Description: IC MCU 32BIT 32KB FLASH 32QFN        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX256ZVLQ10R</a><br>Description: IC MCU 32BIT 256KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX64VFM5</a><br>Description: IC MCU 32BIT 64KB FLASH 32QFN        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX32VLF5</a><br>Description: IC MCU 32BIT 32KB FLASH 48LQFP       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX256VMD10</a><br>Description: IC MCU 32BIT 256KB FLASH 144BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX256VLK7R</a><br>Description: IC MCU 32BIT 256KB FLASH 80LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX64VFT5</a><br>Description: IC MCU 32BIT 64KB FLASH 48QFN        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX256VLQ10</a><br>Description: IC MCU 32BIT 256KB FLASH 144LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX32VFT5</a><br>Description: IC MCU 32BIT 32KB FLASH 48QFN        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX32VMP5</a><br>Description: IC MCU 32BIT 32KB FLASH 64MAPBGA     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX256VML7</a><br>Description: IC MCU 32BIT 256KB FLASH 121BGA     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX256VMB7</a><br>Description: IC MCU 32BIT 256KB FLASH 81BGA      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX256VLL7</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX256VLH7</a><br>Description: IC MCU 32BIT 256KB FLASH 64LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DX32VLH5</a><br>Description: IC MCU 32BIT 32KB FLASH 64LQFP       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |

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