



Image may be representation. See specifications for product details.

### MK10DX256VLQ10

|                     |                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------|
| Part Number:        | MK10DX256VLQ10                                                                                               |
| Manufacturer/Brand: | NXP Semiconductors / Freescale                                                                               |
| Product description | IC MCU 32BIT 256KB FLASH 144LQFP                                                                             |
|                     | <a href="#">PDF</a> 1.MK10DX256VLQ10.pdf                                                                     |
|                     | <a href="#">PDF</a> 2.MK10DX256VLQ10.pdf                                                                     |
|                     | <a href="#">PDF</a> 3.MK10DX256VLQ10.pdf                                                                     |
|                     | <a href="#">PDF</a> 4.MK10DX256VLQ10.pdf                                                                     |
| Datasheets:         |                                                                                                              |
| RoHS Status         |  Lead free / RoHS Compliant |
| Ship From           | Hong Kong                                                                                                    |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                        |

REQUEST FOR QUOTATION

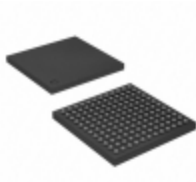
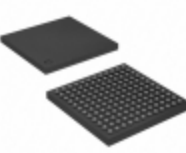
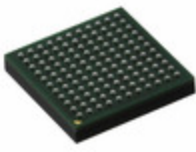
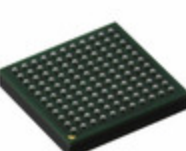
#### Specifications of MK10DX256VLQ10

|                                  |                                                                                                                                                                              |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | MK10DX256VLQ10                                                                                                                                                               |
| MANUFACTURER                     | NXP Semiconductors / Freescale                                                                                                                                               |
| DESCRIPTION                      | IC MCU 32BIT 256KB FLASH 144LQFP                                                                                                                                             |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                   |
| DATA SHEET                       | <a href="#">PDF</a> 1.MK10DX256VLQ10.pdf<br><a href="#">PDF</a> 2.MK10DX256VLQ10.pdf<br><a href="#">PDF</a> 3.MK10DX256VLQ10.pdf<br><a href="#">PDF</a> 4.MK10DX256VLQ10.pdf |
| 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                      | 935324543557                                                                                                                                                                 |
| OSCILLATOR TYPE                  | Internal                                                                                                                                                                     |
| OPERATING TEMPERATURE            | -40°C ~ 105°C (TA)                                                                                                                                                           |
| NUMBER OF I/O                    | 104                                                                                                                                                                          |
| 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 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                                                                                                                                                                    |

#### Related Tags

|                                               |                                         |                                                   |
|-----------------------------------------------|-----------------------------------------|---------------------------------------------------|
| NXP Semiconductors / Freescale MK10DX256VLQ10 | MK10DX256VLQ10 Distributor              | MK10DX256VLQ10 Supplier                           |
| MK10DX256VLQ10 Price                          | MK10DX256VLQ10 Pictures                 | MK10DX256VLQ10 Image                              |
| MK10DX256VLQ10 PDF Datasheet                  | MK10DX256VLQ10 Download Datasheet       | MK10DX256VLQ10 Datasheet                          |
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| NXP Semiconductors / Freescale MK10DX256VLQ10 | NXP Semiconductors / Freescale Supplier | NXP Semiconductors / Freescale Distributor        |
| NXP Semiconductors / Freescale MK10DX256VLQ10 | NXP Semiconductors MK10DX256VLQ10       | Freescale MK10DX256VLQ10                          |
| Freescale Semiconductor - NXP MK10DX256VLQ10  | NXP USA Inc. MK10DX256VLQ10             |                                                   |

#### Related Products

|                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <div><b>MK10DX128ZVMD10R</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 128KB FLASH 144BGA<br/>In stock: Out stock<br/><a href="#">RFQ</a></div>  |  <div><b>MK10DX256VMB7</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 256KB FLASH 81BGA<br/>In stock: Out stock<br/><a href="#">RFQ</a></div>   |
|  <div><b>MK10DX256ZVLQ10</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 256KB FLASH 144LQFP<br/>In stock: 540 pcs<br/><a href="#">RFQ</a></div>    |  <div><b>MK10DX256VMD10</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 256KB FLASH 144BGA<br/>In stock: Out stock<br/><a href="#">RFQ</a></div> |
|  <div><b>MK10DX256VLH7</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 256KB FLASH 64LQFP<br/>In stock: 512 pcs<br/><a href="#">RFQ</a></div>       |  <div><b>MK10DX256VLL7</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 256KB FLASH 100LQFP<br/>In stock: Out stock<br/><a href="#">RFQ</a></div> |
|  <div><b>MK10DX256VMC7</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 256KB FLASH 121BGA<br/>In stock: 785 pcs<br/><a href="#">RFQ</a></div>       |  <div><b>MK10DX256VLK7</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 256KB FLASH 80LQFP<br/>In stock: Out stock<br/><a href="#">RFQ</a></div>  |
|  <div><b>MK10DX256ZVLQ10R</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 256KB FLASH 144LQFP<br/>In stock: Out stock<br/><a href="#">RFQ</a></div> |  <div><b>MK10DX256VML7</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 256KB FLASH 121BGA<br/>In stock: Out stock<br/><a href="#">RFQ</a></div>  |
|  <div><b>MK10DX256VLH7R</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 256KB FLASH 64LQFP<br/>In stock: Out stock<br/><a href="#">RFQ</a></div>    |  <div><b>MK10DX256VLK7R</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 256KB FLASH 80LQFP<br/>In stock: Out stock<br/><a href="#">RFQ</a></div> |

