

MK53DX256CLQ10



**Part Number:** [MK53DX256CLQ10](#)

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

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

**Data sheet:**  [K53\\_LQ/MD10 Ref Manual](#)  
 [K50 Family Fact Sheet](#)  
 [K53\\_LQ/MD10 Datasheet](#)  
 [K50 Family Brief](#)  
 [5N22D Mask Set Errata](#)

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

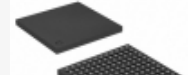
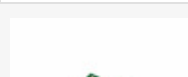
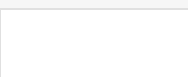
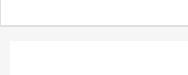
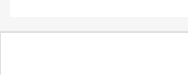
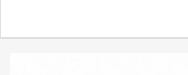
**Ship From:** Hong Kong

**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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MK53DX256CLQ10                                                                                       | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10481 pcs                                                                                            | Data sheet                       | <a href="#">K53_LQ/MD10 Ref Manual</a><br><a href="#">K50 Family Fact Sheet</a><br><a href="#">K53_LQ/MD10 Datasheet</a><br><a href="#">K50 Family Brief</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-LQFP (20x20)                                                                                     | Speed                            | 100MHz                                                                                                                                                                                                |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Kinetis K50                                                                                          | RAM Size                         | 128K x 8                                                                                                                                                                                              |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                                                                                | Program Memory Size              | 256KB (256K x 8)                                                                                                                                                                                      |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DMA, I <sup>2</sup> S, LCD, LVD, POR, PWM, WDT                                                       | Packaging                        | Tray                                                                                                                                                                                                  |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 144-LQFP                                                                                             | Other Names                      | 935324545557                                                                                                                                                                                          |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Internal                                                                                             | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                                                                                                                     |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 94                                                                                                   | 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 K50 Microcontroller IC 32-Bit 100MHz 256KB (256K x 8) FLASH 144-LQFP (20x20) | Data Converters                  | A/D 41x16b, D/A 2x12b                                                                                                                                                                                 |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 32-Bit                                                                                               | Core Processor                   | ARM® Cortex®-M4                                                                                                                                                                                       |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, SD, SPI, UART/USART, USB, USB OTG                         | Base Part Number                 | MK53DX256                                                                                                                                                                                             |
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| RELATED PRODUCTS                                                                   |                                                                                         |                                                                   |                     |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">MK5811ASLFTR</a><br>Description: IC CLK GENERATOR LOW EMI 8-SOIC     | Manufacturers: <a href="#">IDT (Integrated Device Technology)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK5811CMILFT</a><br>Description: IC CLK GENERATOR LOW EMI 8SOIC      | Manufacturers: <a href="#">IDT (Integrated Device Technology)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK52DN512CLQ10</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK5811CMLF</a><br>Description: IC CLK GENERATOR LOW EMI 8SOIC        | Manufacturers: <a href="#">IDT (Integrated Device Technology)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK53DN512ZCLQ10</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK52DN512ZCMD10</a><br>Description: IC MCU 32BIT 512KB FLASH 144BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK5622FE-R52</a><br>Description: RES 56.2K OHM 1/4W 1% AXIAL         | Manufacturers: <a href="#">Ohmite</a>                             | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK53DN512ZCMD10</a><br>Description: IC MCU 32BIT 512KB FLASH 144BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK5811CMLF</a><br>Description: IC CLOCK GENERATOR LOW EMI 8SOIC      | Manufacturers: <a href="#">IDT (Integrated Device Technology)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK53DX256CMD10</a><br>Description: IC MCU 32BIT 256KB FLASH 144BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK5811ASLF</a><br>Description: IC CLK GENERATOR LOW EMI 8-SOIC       | Manufacturers: <a href="#">IDT (Integrated Device Technology)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK53DN512CMD10</a><br>Description: IC MCU 32BIT 512KB FLASH 144BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK52DN512ZCLQ10</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK51DX256ZCMC10</a><br>Description: IC MCU 32BIT 256KB FLASH 121BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK51R1FE-R52</a><br>Description: RES 51.1 OHM 1/4W 1% AXIAL          | Manufacturers: <a href="#">Ohmite</a>                             | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK53DX256ZCMD10</a><br>Description: IC MCU 32BIT 256KB FLASH 144BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK53DX256ZCLQ10</a><br>Description: IC MCU 32BIT 256KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK5811CMLFT</a><br>Description: IC CLK GENERATOR LOW EMI 8-SOIC      | Manufacturers: <a href="#">IDT (Integrated Device Technology)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK53DN512CLQ10</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK52DN512CMD10</a><br>Description: IC MCU 32BIT 512KB FLASH 144BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <a href="#">RFQ</a> |

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