

MK40DX256VLK7



**Part Number:** [MK40DX256VLK7](#)

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

**Description:** IC MCU 32BIT 256KB FLASH 80LQFP

**Data sheet:**  [K40 Sub-Family](#)  
 [K40 Family Fact Sheet](#)  
 [K40 系列产品概述](#)  
 [K40\\_LK7 Ref Manual](#)

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

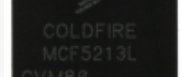
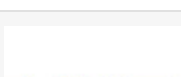
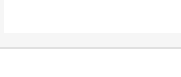
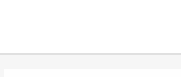
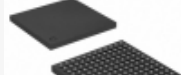
**Ship From:** Hong Kong

**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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MK40DX256VLK7                                                                                      | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                                              |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 32BIT 256KB FLASH 80LQFP                                                                    | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                  |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10911 pcs                                                                                          | Data sheet                       | <a href="#">K40 Sub-Family</a><br><a href="#">K40 Family Fact Sheet</a><br><a href="#">K40 系列产品概述</a><br><a href="#">K40_LK7 Ref Manual</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a>                                                          | Voltage - Supply (Vcc/Vdd)       | 1.71 V ~ 3.6 V                                                                                                                              |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 80-LQFP (12x12)                                                                                    | Speed                            | 72MHz                                                                                                                                       |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Kinetis K40                                                                                        | RAM Size                         | 64K 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 80-LQFP                                                                                            | Other Names                      | 935317617557                                                                                                                                |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Internal                                                                                           | Operating Temperature            | -40°C ~ 105°C (TA)                                                                                                                          |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 52                                                                                                 | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                               |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Lead free / RoHS Compliant                                                                         | EEPROM Size                      | 2K x 8                                                                                                                                      |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ARM® Cortex®-M4 Kinetis K40 Microcontroller IC 32-Bit 72MHz 256KB (256K x 8) FLASH 80-LQFP (12x12) | Data Converters                  | A/D 27x16b, D/A 1x12b                                                                                                                       |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 32-Bit                                                                                             | Core Processor                   | ARM® Cortex®-M4                                                                                                                             |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CANbus, I <sup>2</sup> C, IrDA, SPI, UART/USART, USB, USB OTG                                      | Base Part Number                 | MK40DX256                                                                                                                                   |
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| RELATED PRODUCTS                                                                   |                                                                                         |                                                               |                     |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">MK40DX64VLK7</a><br>Description: IC MCU 32BIT 64KB FLASH 80LQFP      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK40DX256ZVMD10</a><br>Description: IC MCU 32BIT 256KB FLASH 144BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK40DN512ZVMD10</a><br>Description: IC MCU 32BIT 512KB FLASH 144BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK40DX256VLH7</a><br>Description: IC MCU 32BIT 256KB FLASH 64LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK40DX128VLH7</a><br>Description: IC MCU 32BIT 128KB FLASH 64LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK40DX128VMB7</a><br>Description: IC MCU 32BIT 128KB FLASH 81BGA     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK40DX256VMC7</a><br>Description: IC MCU 32BIT 256KB FLASH 121BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK40DX256ZVLQ10</a><br>Description: IC MCU 32BIT 256KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK40DX256VLQ10</a><br>Description: IC MCU 32BIT 256KB FLASH 144LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK40DX128ZVLQ10</a><br>Description: IC MCU 32BIT 128KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK40DX256VMD10</a><br>Description: IC MCU 32BIT 256KB FLASH 144BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK40DX128VLL7</a><br>Description: IC MCU 32BIT 128KB FLASH 100LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK40DX128VLK7</a><br>Description: IC MCU 32BIT 128KB FLASH 80LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK40DX128VMC7</a><br>Description: IC MCU 32BIT 128KB FLASH 121BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK40DX256VML7</a><br>Description: IC MCU 32BIT 256KB FLASH 104BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK40DX128VMD10</a><br>Description: IC MCU 32BIT 128KB FLASH 144BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MK40DX256ZVMB10</a><br>Description: IC MCU 32BIT 256KB FLASH 81BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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