

MK20DX64VLH7



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**Part Number:** [MK20DX64VLH7](#)

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

**Description:** IC MCU 32BIT 64KB FLASH 64LQFP

**Data sheet:** [840F-02 Pkg Drawing](#)  
[K20\\_LH7 Ref Manual](#)  
[K2x USB MCU Family Fact Sheet](#)  
[K20 系列产品概述](#)  
[K20\\_LH7 Datasheet](#)

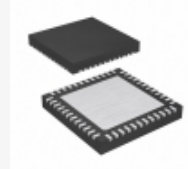
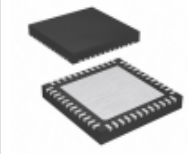
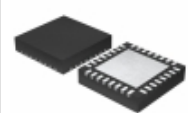
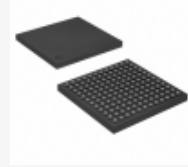
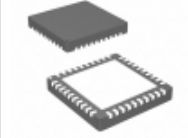
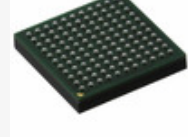
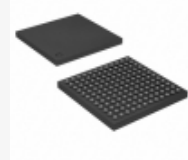
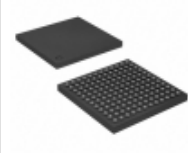
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                  |                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MK20DX64VLH7                              | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                                                                                                |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | IC MCU 32BIT 64KB FLASH 64LQFP            | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                    |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 18464 pcs                                 | Data sheet                       | <a href="#">840F-02 Pkg Drawing</a><br><a href="#">K20_LH7 Ref Manual</a><br><a href="#">K2x USB MCU Family Fact Sheet</a><br><a href="#">K20 系列产品概述</a><br><a href="#">K20_LH7 Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 1.71 V ~ 3.6 V                                                                                                                                                                                |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 64-LQFP (10x10)                           | Speed                            | 72MHz                                                                                                                                                                                         |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Kinetis K20                               | RAM Size                         | 16K x 8                                                                                                                                                                                       |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FLASH                                     | Program Memory Size              | 64KB (64K x 8)                                                                                                                                                                                |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DMA, I <sup>2</sup> S, LVD, POR, PWM, WDT | Packaging                        | Tray                                                                                                                                                                                          |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 64-LQFP                                   | Other Names                      | 935319932557                                                                                                                                                                                  |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Internal                                  | Operating Temperature            | -40°C ~ 105°C (TA)                                                                                                                                                                            |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 40                                        | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                                                                 |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 16 Weeks                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                    |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2K x 8                                    | Detailed Description             | ARM® Cortex®-M4 Kinetis K20 Microcontroller IC 32-Bit 72MHz 64KB (64K x 8) FLASH 64-LQFP (10x10)                                                                                              |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A/D 24x16b, D/A 1x12b                     | Core Size                        | 32-Bit                                                                                                                                                                                        |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ARM® Cortex®-M4                           | Connectivity                     | CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, SPI, UART/USART, USB, USB OTG                                                                                                                        |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MK20DX64                                  |                                  |                                                                                                                                                                                               |
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| RELATED PRODUCTS                                                                   |                                                                                        |                                                               |                     |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">MK20DX64VLK7</a><br>Description: IC MCU 32BIT 64KB FLASH 80LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20DX64VFT5</a><br>Description: IC MCU 32BIT 64KB FLASH 48QFN      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20DX32VFT5</a><br>Description: IC MCU 32BIT 32KB FLASH 48QFN      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20DX64VMP5</a><br>Description: IC MCU 32BIT 64KB FLASH 64MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20DX64VFM5</a><br>Description: IC MCU 32BIT 64KB FLASH 32QFN      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20R0FE-R52</a><br>Description: RES 20 OHM 1/4W 1% AXIAL           | Manufacturers: <a href="#">Ohmite</a>                         | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20FN1M0VLQ12</a><br>Description: IC MCU 32BIT 1MB FLASH 144LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20DX256ZVMD10</a><br>Description: IC MCU 32BIT 256KB FLASH 144BGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20DX64VLH5</a><br>Description: IC MCU 32BIT 64KB FLASH 64LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20FX512VLQ12</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20DX32VFM5</a><br>Description: IC MCU 32BIT 32KB FLASH 32QFN      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20DX64VMC7</a><br>Description: IC MCU 32BIT 64KB FLASH 121BGA     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20DX64VLF5</a><br>Description: IC MCU 32BIT 64KB FLASH 48LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20FN1M0VMD12</a><br>Description: IC MCU 32BIT 1MB FLASH 144MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20DX64VMB7</a><br>Description: IC MCU 32BIT 64KB FLASH 81MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20DX32VLH5</a><br>Description: IC MCU 32BIT 32KB FLASH 64LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20FX512VMD12</a><br>Description: IC MCU 32BIT 512KB FLASH 144BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20DX32VMP5</a><br>Description: IC MCU 32BIT 32KB FLASH 64MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20DX32VLF5</a><br>Description: IC MCU 32BIT 32KB FLASH 48LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK20FN1M0VLQ12R</a><br>Description: IC MCU 32BIT 1MB FLASH 144LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |

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