

MK20DN32VLF5



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**Part Number:** [MK20DN32VLF5](#)

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

**Description:** IC MCU 32BIT 32KB FLASH 48LQFP

**Data sheet:**  [K20\\_LF/FT5 Ref Manual](#)  
 [K2x USB MCU Family Fact Sheet](#)  
 [K20 系列产品概述](#)  
 [K20\\_LF/FT5 Datasheet](#)

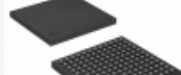
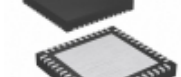
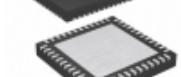
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                  |                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MK20DN32VLF5                              | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                                                               |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | IC MCU 32BIT 32KB FLASH 48LQFP            | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                   |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 25010 pcs                                 | Data sheet                       | <a href="#">K20_LF/FT5 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_LF/FT5 Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 1.71 V ~ 3.6 V                                                                                                                                               |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 48-LQFP (7x7)                             | Speed                            | 50MHz                                                                                                                                                        |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Kinetis K20                               | RAM Size                         | 8K x 8                                                                                                                                                       |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FLASH                                     | Program Memory Size              | 32KB (32K x 8)                                                                                                                                               |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DMA, I <sup>2</sup> S, LVD, POR, PWM, WDT | Packaging                        | Tray                                                                                                                                                         |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 48-LQFP                                   | Other Names                      | 935323272557                                                                                                                                                 |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Internal                                  | Operating Temperature            | -40°C ~ 105°C (TA)                                                                                                                                           |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 29                                        | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                                |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 16 Weeks                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                   |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                         | Detailed Description             | ARM® Cortex®-M4 Kinetis K20 Microcontroller IC 32-Bit 50MHz 32KB (32K x 8) FLASH 48-LQFP (7x7)                                                               |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A/D 11x16b                                | Core Size                        | 32-Bit                                                                                                                                                       |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ARM® Cortex®-M4                           | Connectivity                     | I <sup>2</sup> C, IrDA, SPI, UART/USART, USB, USB OTG                                                                                                        |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MK20DN32                                  |                                  |                                                                                                                                                              |
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| RELATED PRODUCTS                                                                   |                                                                                         |                                                                   |                |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------|
|  | Part#: <a href="#">MK20DN128VMP5</a><br>Description: IC MCU 32BIT 128KB FLASH 64BGA     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN32VMP5</a><br>Description: IC MCU 32BIT 32KB FLASH 64MAPBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK2069-04GILF</a><br>Description: IC CLOCK SYNTHESIZER 56-TSSOP      | Manufacturers: <a href="#">IDT (Integrated Device Technology)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN512VLK10</a><br>Description: IC MCU 32BIT 512KB FLASH 80LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN128VLF5</a><br>Description: IC MCU 32BIT 128KB FLASH 48LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN512VMD10</a><br>Description: IC MCU 32BIT 512KB FLASH 144BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN128VFM5</a><br>Description: IC MCU 32BIT 128KB FLASH 32QFN     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN512ZCAB10R</a><br>Description: IC MCU 32BIT 512KB FLASH 120CSP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN512ZAB10R</a><br>Description: IC MCU 32BIT 512KB FLASH 120CSP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN512VLQ10</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN32VFT5</a><br>Description: IC MCU 32BIT 32KB FLASH 48QFN       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN32VLH5</a><br>Description: IC MCU 32BIT 32KB FLASH 64LQFP      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK2069-04GITR</a><br>Description: IC VCXO CLK TRANSLATOR 56-TSSOP    | Manufacturers: <a href="#">IDT (Integrated Device Technology)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN512VMC10</a><br>Description: IC MCU 32BIT 512KB FLASH 121BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK2069-04GILFTR</a><br>Description: IC VCXO CLK TRANSLATOR 56-TSSOP  | Manufacturers: <a href="#">IDT (Integrated Device Technology)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN32VFM5</a><br>Description: IC MCU 32BIT 32KB FLASH 32QFN       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN128VFT5</a><br>Description: IC MCU 32BIT 128KB FLASH 48QFN     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN512VLL10</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
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|  | Part#: <a href="#">MK20DN512VLK10R</a><br>Description: KINETIS K 32-BIT MCU ARM CORTEX  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |

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