

MK10DN512ZVLK10



Part Number: [MK10DN512ZVLK10](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 32BIT 512KB FLASH 80LQFP

Data sheet:  [K10\\_ZLK/ZMB10 Datasheet](#)  
 [K10\\_ZLK/ZMB10 Ref Manual](#)  
 [K10 Family Fact Sheet](#)

RoHS Status: Lead free / RoHS Compliant

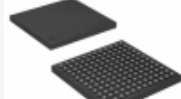
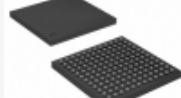
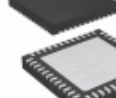
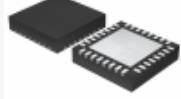
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Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                     |                                  |                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MK10DN512ZVLK10                                                                                     | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                               |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | IC MCU 32BIT 512KB FLASH 80LQFP                                                                     | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                   |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 12665 pcs                                                                                           | Data sheet                       | <a href="#">K10_ZLK/ZMB10 Datasheet</a><br><a href="#">K10_ZLK/ZMB10 Ref Manual</a><br><a href="#">K10 Family Fact Sheet</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                            | 100MHz                                                                                                                       |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Kinetis K10                                                                                         | RAM Size                         | 128K x 8                                                                                                                     |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FLASH                                                                                               | Program Memory Size              | 512KB (512K x 8)                                                                                                             |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DMA, I <sup>2</sup> S, LVD, POR, PWM, WDT                                                           | Packaging                        | Tray                                                                                                                         |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 80-LQFP                                                                                             | Other Names                      | 935321746557                                                                                                                 |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Internal                                                                                            | Operating Temperature            | -40°C ~ 105°C (TA)                                                                                                           |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 56                                                                                                  | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Lead free / RoHS Compliant                                                                          | EEPROM Size                      | -                                                                                                                            |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ARM® Cortex®-M4 Kinetis K10 Microcontroller IC 32-Bit 100MHz 512KB (512K x 8) FLASH 80-LQFP (12x12) | Data Converters                  | A/D 37x16b, D/A 1x12b                                                                                                        |
| 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                 | MK10DN512                                                                                                                    |
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| RELATED PRODUCTS                                                                   |                                                                                          |                                                               |                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------|
|  | Part#: <a href="#">MK10DN512VMC10</a><br>Description: IC MCU 32BIT 512KB FLASH 121BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DN512ZVMC10</a><br>Description: IC MCU 32BIT 512KB FLASH 121BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DN512VLQ10</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DN64VLF5</a><br>Description: IC MCU 32BIT 64KB FLASH 48LQFP       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DN512ZVLK10R</a><br>Description: IC MCU 32BIT 512KB FLASH 80LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DN512ZVMD10</a><br>Description: IC MCU 32BIT 512KB FLASH 144BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DN512ZVLL10</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DN512ZVMD10</a><br>Description: IC MCU 32BIT 512KB FLASH 144BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DN512VLK10R</a><br>Description: KINETIS K 32-BIT MCU ARM CORTEX   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DN32VLF5</a><br>Description: IC MCU 32BIT 32KB FLASH 48LQFP       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DN64VFT5</a><br>Description: IC MCU 32BIT 64KB FLASH 48QFN        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DN512VMC10R</a><br>Description: IC MCU 32BIT 512KB FLASH 121BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DN512ZVLL10R</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DN512ZVLQ10</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DN512ZVLL10</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DN512VLK10</a><br>Description: IC MCU 32BIT 512KB FLASH 80LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DN512ZVMC10R</a><br>Description: IC MCU 32BIT 512KB FLASH 121BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DN64VFM5</a><br>Description: IC MCU 32BIT 64KB FLASH 32QFN        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK10DN32VLH5</a><br>Description: IC MCU 32BIT 32KB FLASH 64LQFP       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|   | Part#: <a href="#">MK10DN32VMP5</a><br>Description: IC MCU 32BIT 32KB FLASH 64MAPBGA     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |

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