

MK51DN512CLL10



Part Number: [MK51DN512CLL10](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 32BIT 512KB FLASH 100LQFP

Data sheet:  [K50 Family Fact Sheet](#)  
 [K51\\_LL10 Ref Manual](#)  
 [K51\\_LL10 Datasheet](#)  
 [K50 Family Brief](#)  
 [5N22D Mask Set Errata](#)

RoHs Status: Lead free / RoHS Compliant

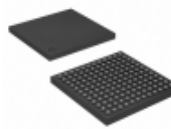
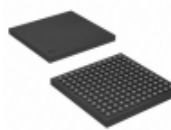
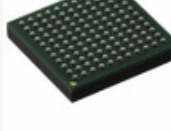
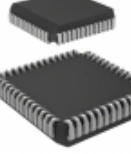
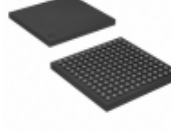
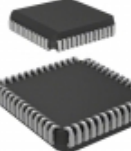
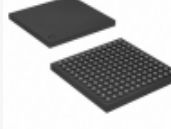
Ship From: Hong Kong

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Images are for reference only.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                |                                  |                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MK51DN512CLL10                                 | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                                                                                                  |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 32BIT 512KB FLASH 100LQFP               | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                      |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9407 pcs                                       | Data sheet                       | <a href="#">K50 Family Fact Sheet</a><br><a href="#">K51_LL10 Ref Manual</a><br><a href="#">K51_LL10 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 100-LQFP (14x14)                               | Speed                            | 100MHz                                                                                                                                                                                          |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Kinetis K50                                    | RAM Size                         | 128K x 8                                                                                                                                                                                        |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FLASH                                          | Program Memory Size              | 512KB (512K x 8)                                                                                                                                                                                |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DMA, I <sup>2</sup> S, LCD, LVD, POR, PWM, WDT | Packaging                        | Tray                                                                                                                                                                                            |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100-LQFP                                       | Other Names                      | 935317609557                                                                                                                                                                                    |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Internal                                       | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                                                                                                               |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 59                                             | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                                                                   |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 13 Weeks                                       | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                      |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                                              | Detailed Description             | ARM® Cortex®-M4 Kinetis K50 Microcontroller IC 32-Bit 100MHz 512KB (512K x 8) FLASH 100-LQFP (14x14)                                                                                            |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A/D 35x16b, D/A 2x12b                          | Core Size                        | 32-Bit                                                                                                                                                                                          |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ARM® Cortex®-M4                                | Connectivity                     | I <sup>2</sup> C, IrDA, SD, SPI, UART/USART, USB, USB OTG                                                                                                                                       |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MK51DN512                                      |                                  |                                                                                                                                                                                                 |
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| RELATED PRODUCTS                                                                   |                                                                                         |                                                               |                |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------|
|  | Part#: <a href="#">MK51DX128CMC7</a><br>Description: IC MCU 32BIT 128KB FLASH 121BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK5111FE-R52</a><br>Description: RES 5.11K OHM 1/4W 1% AXIAL         | Manufacturers: <a href="#">Ohmite</a>                         | <div>RFQ</div> |
|  | Part#: <a href="#">MK51DN512CMD10</a><br>Description: IC MCU 32BIT 512KB FLASH 144BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK50DX256ZCLL10</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK51DX128CLH7</a><br>Description: IC MCU 32BIT 128KB FLASH 64LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK51DX256CLK10</a><br>Description: IC MCU 32BIT 256KB FLASH 80LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK50DX256CMD10</a><br>Description: IC MCU 32BIT 256KB FLASH 144BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK51DN512ZCLQ10</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK51DN512CLQ10</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK51DN512CMC10</a><br>Description: IC MCU 32BIT 512KB FLASH 121BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK50DX256ZCLQ10</a><br>Description: IC MCU 32BIT 256KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK5110FE-R52</a><br>Description: RES 511 OHM 1/4W 1% AXIAL           | Manufacturers: <a href="#">Ohmite</a>                         | <div>RFQ</div> |
|  | Part#: <a href="#">MK51DN512ZCLL10</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK5112FE-R52</a><br>Description: RES 51.1K OHM 1/4W 1% AXIAL         | Manufacturers: <a href="#">Ohmite</a>                         | <div>RFQ</div> |
|  | Part#: <a href="#">MK50H27TQ33B</a><br>Description: IC CTRLR SYSTEM7 33MHZ 52-PLCC      | Manufacturers: <a href="#">STMicroelectronics</a>             | <div>RFQ</div> |
|  | Part#: <a href="#">MK51DX128CLK7</a><br>Description: IC MCU 32BIT 128KB FLASH 80LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK51DN256CMD10</a><br>Description: IC MCU 32BIT 256KB FLASH 144BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK51DN512ZCMC10</a><br>Description: IC MCU 32BIT 512KB FLASH 121BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK50H27Q33B</a><br>Description: IC CTRLR SYSTEM7 33MHZ 52-PLCC       | Manufacturers: <a href="#">STMicroelectronics</a>             | <div>RFQ</div> |
|  | Part#: <a href="#">MK51DN256ZCMD10</a><br>Description: IC MCU 32BIT 256KB FLASH 144BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |

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