

MK22FX512VLQ12



Part Number: [MK22FX512VLQ12](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 32BIT 512KB FLASH 144LQFP

Data sheet:  
 [2N03G Mask Errata](#)  
 [MK22FX512VLQ,MD12, MK22FN1M0VLQ,MD12](#)  
 [MK22FX512VLQ12 Ref Manual](#)

RoHs Status: Lead free / RoHS Compliant

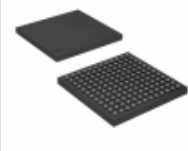
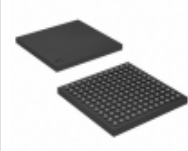
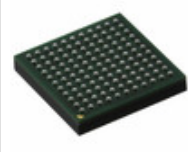
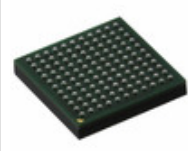
Ship From: Hong Kong

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Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                      |                                  |                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MK22FX512VLQ12                                                                                       | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                                         |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 32BIT 512KB FLASH 144LQFP                                                                     | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                             |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9165 pcs                                                                                             | Data sheet                       | <a href="#">2N03G Mask Errata</a><br><a href="#">MK22FX512VLQ,MD12, MK22FN1M0VLQ,MD12</a><br><a href="#">MK22FX512VLQ12 Ref Manual</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a>                                                            | Voltage - Supply (Vcc/Vdd)       | 1.71 V ~ 3.6 V                                                                                                                         |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 144-LQFP (20x20)                                                                                     | Speed                            | 120MHz                                                                                                                                 |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Kinetis K20                                                                                          | RAM Size                         | 64K 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 144-LQFP                                                                                             | Other Names                      | 935312994557                                                                                                                           |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Internal                                                                                             | Operating Temperature            | -40°C ~ 105°C (TA)                                                                                                                     |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100                                                                                                  | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                          |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Lead free / RoHS Compliant                                                                           | EEPROM Size                      | -                                                                                                                                      |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ARM® Cortex®-M4 Kinetis K20 Microcontroller IC 32-Bit 120MHz 512KB (512K x 8) FLASH 144-LQFP (20x20) | Data Converters                  | A/D 42x16b, D/A 2x12b                                                                                                                  |
| 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                 | MK22FX512                                                                                                                              |
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|  | Part#: <a href="#">MK22FX512VMD12R</a><br>Description: KINETIS K 32-BIT MCU ARM CORTEX  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK23-35-B-2</a><br>Description: SWITCH REED SPST-NO 1A 200V          | Manufacturers: <a href="#">Standex-Meder Electronics</a>      | <div>RFQ</div> |
|  | Part#: <a href="#">MK22FX512AVLQ12</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MK22FX512AVLH12R</a><br>Description: KINETIS K 32-BIT MCU ARM CORTEX | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK22FX512AVLL12</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK22FX512AVLK12</a><br>Description: IC MCU 32BIT 512KB FLASH 80LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MK22FX512AVMC12</a><br>Description: IC MCU 32BIT 512KB FLASH 121BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK23-35-B-4</a><br>Description: SWITCH REED SPST-NO 1A 200V          | Manufacturers: <a href="#">Standex-Meder Electronics</a>      | <div>RFQ</div> |
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