

MK21FX512VLQ12



Part Number: [MK21FX512VLQ12](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 32BIT 512KB FLASH 144LQFP

Data sheet:  [2N03G Mask Errata](#)  
 [MK21FXyyyVyy12 Ref Manual](#)  
 [K-21 Sub-Family Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

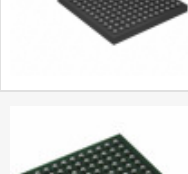
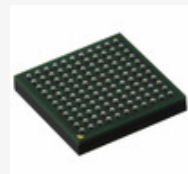
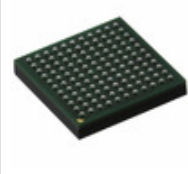
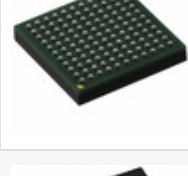
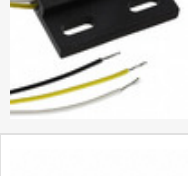
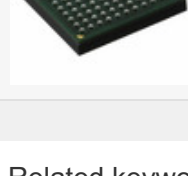
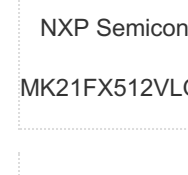
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Images are for reference only.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                      |                                  |                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MK21FX512VLQ12                                                                                       | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10157 pcs                                                                                            | Data sheet                       | <a href="#">2N03G Mask Errata</a><br><a href="#">MK21FXyyyVyy12 Ref Manual</a><br><a href="#">K-21 Sub-Family Datasheet</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                         | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 144-LQFP                                                                                             | Other Names                      | 935315086557                                                                                                                |
| 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, I <sup>2</sup> C, IrDA, SPI, UART/USART, USB, USB OTG                                        | Base Part Number                 | MK21FX512                                                                                                                   |
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|  | Part#: <a href="#">MK21P-1C90C-500W</a><br>Description: SENSOR REED SW SPST-NO W LEADS  | Manufacturers: <a href="#">Standex-Meder Electronics</a>      | <div>RFQ</div> |
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