



### MK21FX512AVMD12

|                     |                                                                                                                       |
|---------------------|-----------------------------------------------------------------------------------------------------------------------|
| Part Number:        | MK21FX512AVMD12                                                                                                       |
| Manufacturer/Brand: | NXP Semiconductors / Freescale                                                                                        |
| Product description | IC MCU 32BIT 512KB FLASH 144BGA                                                                                       |
| Datasheets:         |  <a href="#">MK21FX512AVMD12.pdf</a> |
| RoHs Status         |  Lead free / RoHS Compliant          |
| Ship From           | Hong Kong                                                                                                             |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                                 |

REQUEST FOR QUOTATION

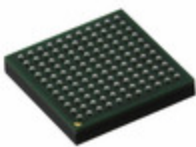
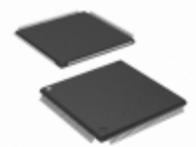
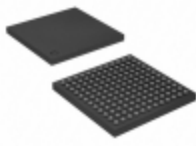
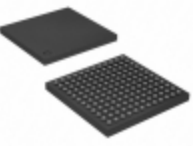
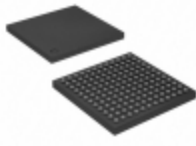
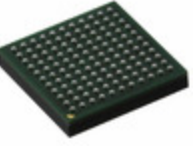
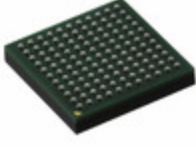
#### Specifications of MK21FX512AVMD12

|                                  |                                                                                                                         |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | MK21FX512AVMD12                                                                                                         |
| MANUFACTURER                     | NXP Semiconductors / Freescale                                                                                          |
| DESCRIPTION                      | IC MCU 32BIT 512KB FLASH 144BGA                                                                                         |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                              |
| DATA SHEET                       |  <a href="#">MK21FX512AVMD12.pdf</a> |
| VOLTAGE - SUPPLY (VCC/VDD)       | 1.71 V ~ 3.6 V                                                                                                          |
| SUPPLIER DEVICE PACKAGE          | 144-MAPBGA (13x13)                                                                                                      |
| SPEED                            | 120MHz                                                                                                                  |
| SERIES                           | Kinetis K20                                                                                                             |
| RAM SIZE                         | 128K x 8                                                                                                                |
| PROGRAM MEMORY TYPE              | FLASH                                                                                                                   |
| PROGRAM MEMORY SIZE              | 512KB (512K x 8)                                                                                                        |
| PERIPHERALS                      | DMA, I²S, LVD, POR, PWM, WDT                                                                                            |
| PACKAGING                        | Tray                                                                                                                    |
| PACKAGE / CASE                   | 144-LBGA                                                                                                                |
| OTHER NAMES                      | 935325913557                                                                                                            |
| OSCILLATOR TYPE                  | Internal                                                                                                                |
| OPERATING TEMPERATURE            | -40°C ~ 105°C (TA)                                                                                                      |
| NUMBER OF I/O                    | 95                                                                                                                      |
| 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-MAPBGA (13x13)                  |
| DATA CONVERTERS                  | A/D 42x16b, D/A 2x12b                                                                                                   |
| CORE SIZE                        | 32-Bit                                                                                                                  |
| CORE PROCESSOR                   | ARM® Cortex®-M4                                                                                                         |
| CONNECTIVITY                     | CANbus, I²C, IrDA, SPI, UART/USART, USB, USB OTG                                                                        |

#### Related Tags

|                                                |                                         |                                                    |
|------------------------------------------------|-----------------------------------------|----------------------------------------------------|
| NXP Semiconductors / Freescale MK21FX512AVMD12 | MK21FX512AVMD12 Distributor             | MK21FX512AVMD12 Supplier                           |
| MK21FX512AVMD12 Price                          | MK21FX512AVMD12 Pictures                | MK21FX512AVMD12 Image                              |
| MK21FX512AVMD12 PDF Datasheet                  | MK21FX512AVMD12 Download Datasheet      | MK21FX512AVMD12 Datasheet                          |
| MK21FX512AVMD12 Stock                          | Buy MK21FX512AVMD12                     | Buy NXP Semiconductors / Freescale MK21FX512AVMD12 |
| NXP Semiconductors / Freescale MK21FX512AVMD12 | NXP Semiconductors / Freescale Supplier | NXP Semiconductors / Freescale Distributor         |
| NXP Semiconductors / Freescale MK21FX512AVMD12 | NXP Semiconductors MK21FX512AVMD12      | Freescale MK21FX512AVMD12                          |
| Freescale Semiconductor - NXP MK21FX512AVMD12  | NXP USA Inc. MK21FX512AVMD12            |                                                    |

#### Related Products

|                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                |
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| <div></div> <div><b>MK21FX512VMC12</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 512KB FLASH 121BGA<br/>In stock: Out stock<br/><div>RFQ</div></div> | <div></div> <div><b>MK21FX512VLQ12</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 512KB FLASH 144LQFP<br/>In stock: Out stock<br/><div>RFQ</div></div> |
| <div></div> <div><b>MK21FN1M0VLQ12</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 1MB FLASH 144LQFP<br/>In stock: Out stock<br/><div>RFQ</div></div>  | <div></div> <div><b>MK21M-1A66B-500W</b><br/>Manufacturers: Standex-Meder Electronics<br/>Description: SENSOR REED SW SPST-NO W LEADS<br/>In stock: 27 pcs<br/><div>RFQ</div></div>         |
| <div></div> <div><b>MK21FN1M0AVMD12</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 1MB FLASH 144MAPBGA<br/>In stock: 138 pcs<br/><div>RFQ</div></div> | <div></div> <div><b>MK21FN1M0VMD12</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 1MB FLASH 144MAPBGA<br/>In stock: Out stock<br/><div>RFQ</div></div> |
| <div></div> <div><b>MK21FX512VMD12</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 512KB FLASH 144BGA<br/>In stock: Out stock<br/><div>RFQ</div></div> | <div></div> <div><b>MK21FN1M0VMC12</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 1MB FLASH 121MAPBGA<br/>In stock: Out stock<br/><div>RFQ</div></div> |
| <div></div> <div><b>MK21FX512AVMC12</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 512KB FLASH 121BGA<br/>In stock: 193 pcs<br/><div>RFQ</div></div>  | <div></div> <div><b>MK21FX512AVLQ12</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MCU 32BIT 512KB FLASH 144LQFP<br/>In stock: 153 pcs<br/><div>RFQ</div></div>  |
| <div></div> <div><b>MK21P-1A66B-500W</b><br/>Manufacturers: Standex-Meder Electronics<br/>Description: SENSOR REED SW SPST-NO W LEADS<br/>In stock: 6 pcs<br/><div>RFQ</div></div>         | <div></div> <div><b>MK21M-1A66C-500W</b><br/>Manufacturers: Standex-Meder Electronics<br/>Description: SENSOR REED SW SPST-NO W LEADS<br/>In stock: 364 pcs<br/><div>RFQ</div></div>        |