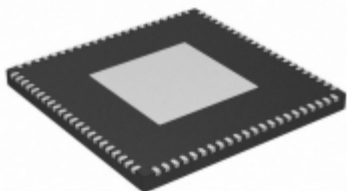


MK22FN512VFX12R



Part Number: [MK22FN512VFX12R](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 32BIT 512KB FLASH 88QFN

Data sheet:

RoHs Status: Lead free / RoHS Compliant

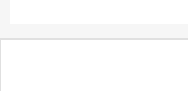
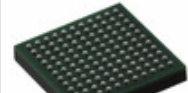
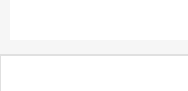
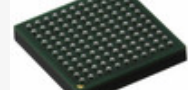
Ship From: Hong Kong

Shipment Way: DHL/Fedex/TNT/UPS/EMS

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                    |                                  |                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MK22FN512VFX12R                                                                                    | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a> |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | IC MCU 32BIT 512KB FLASH 88QFN                                                                     | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                     |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 17334 pcs                                                                                          | Data sheet                       |                                                |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">Integrated Circuits (ICs)</a>                                                          | Voltage - Supply (Vcc/Vdd)       | 1.71 V ~ 3.6 V                                 |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 88-QFN (10x10)                                                                                     | 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                        | Tape & Reel (TR)                               |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 88-VFQFN Exposed Pad                                                                               | Other Names                      | 935313138528                                   |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Internal                                                                                           | Operating Temperature            | -40°C ~ 105°C (TA)                             |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60                                                                                                 | 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 88-QFN (10x10) | Data Converters                  | A/D 2x16b, D/A 1x12b                           |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 32-Bit                                                                                             | Core Processor                   | ARM® Cortex®-M4                                |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IPC, IrDA, SPI, UART/USART, USB, USB OTG                                                           |                                  |                                                |
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|  | Part#: <a href="#">MK22FN512VLL12</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MK22FN512VLH12</a><br>Description: IC MCU 32BIT 512KB FLASH 64LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MK22FN512VLL12R</a><br>Description: KINETIS K22: 120MHZ CORTEX-M4F P | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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