

MK12DN512VLK5R



Part Number: [MK12DN512VLK5R](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 32BIT 512KB FLASH 80LQFP

Data sheet: [PDF K12\\_LK5 Ref Manual](#)  
[PDF K10 Family Fact Sheet](#)  
[PDF K12\\_LK5 Datasheet](#)  
[PDF 1N89E Mask Errata](#)

RoHs Status: Lead free / RoHS Compliant

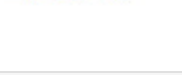
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                    |                                  |                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MK12DN512VLK5R                                                                                     | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                                                        |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 32BIT 512KB FLASH 80LQFP                                                                    | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                            |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 19081 pcs                                                                                          | Data sheet                       | <a href="#">K12_LK5 Ref Manual</a><br><a href="#">K10 Family Fact Sheet</a><br><a href="#">K12_LK5 Datasheet</a><br><a href="#">1N89E Mask Errata</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a>                                                          | Voltage - Supply (Vcc/Vdd)       | 1.71 V ~ 3.6 V                                                                                                                                        |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 80-LQFP (12x12)                                                                                    | Speed                            | 50MHz                                                                                                                                                 |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Kinetis K10                                                                                        | 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                        | Tape & Reel (TR)                                                                                                                                      |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 80-LQFP                                                                                            | Other Names                      | 935319978528                                                                                                                                          |
| 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 K10 Microcontroller IC 32-Bit 50MHz 512KB (512K x 8) FLASH 80-LQFP (12x12) | Data Converters                  | A/D 24x16b, D/A 1x12b                                                                                                                                 |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 32-Bit                                                                                             | Core Processor                   | ARM® Cortex®-M4                                                                                                                                       |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | I <sup>2</sup> C, IrDA, SPI, UART/USART                                                            |                                  |                                                                                                                                                       |
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| RELATED PRODUCTS                                                                   |                                                                                       |                                                               |                     |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">MK12DX256VMC5</a><br>Description: IC MCU 32BIT 256KB FLASH 121BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK1273FE-R52</a><br>Description: RES 127K OHM 1/4W 1% AXIAL        | Manufacturers: <a href="#">Ohmite</a>                         | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK12DN512VLK5</a><br>Description: IC MCU 32BIT 512KB FLASH 80LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MK1240FE-R52</a><br>Description: RES 124 OHM 1/4W 1% AXIAL         | Manufacturers: <a href="#">Ohmite</a>                         | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK12DN512VMC5</a><br>Description: IC MCU 32BIT 512KB FLASH 121BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK1270FE-R52</a><br>Description: RES 127 OHM 1/4W 1% AXIAL         | Manufacturers: <a href="#">Ohmite</a>                         | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK1271FE-R52</a><br>Description: RES 1.27K OHM 1/4W 1% AXIAL       | Manufacturers: <a href="#">Ohmite</a>                         | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MK12DX128VLK5</a><br>Description: IC MCU 32BIT 128KB FLASH 80LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK1242FE-R52</a><br>Description: RES 12.4K OHM 1/4W 1% AXIAL       | Manufacturers: <a href="#">Ohmite</a>                         | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK1243FE-R52</a><br>Description: RES 124K OHM 1/4W 1% AXIAL        | Manufacturers: <a href="#">Ohmite</a>                         | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK12DX128VLH5</a><br>Description: IC MCU 32BIT 128KB FLASH 64LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK12DX256VLK5</a><br>Description: IC MCU 32BIT 256KB FLASH 80LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK12DX128VMC5</a><br>Description: IC MCU 32BIT 128KB FLASH 121BGA  | Manufacturers: <a href="#">NXP USA Inc.</a>                   | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK12DN512VLH5R</a><br>Description: IC MCU 32BIT 512KB FLASH 64LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK12DX256VLH5</a><br>Description: IC MCU 32BIT 256KB FLASH 64LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK12R1FE-R52</a><br>Description: RES 12.1 OHM 1/4W 1% AXIAL        | Manufacturers: <a href="#">Ohmite</a>                         | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK1241FE-R52</a><br>Description: RES 1.24K OHM 1/4W 1% AXIAL       | Manufacturers: <a href="#">Ohmite</a>                         | <a href="#">RFQ</a> |

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|--------------------------------------------|--------------------------------|----------------------------------------------|-----------------------------|
| Related keywords for <b>MK12DN512VLK5R</b> |                                |                                              |                             |
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|                                            |                                | Freescale Semiconductor - NXP MK12DN512VLK5R | NXP USA Inc. MK12DN512VLK5R |