

MK30DX256ZVLQ10



Part Number: [MK30DX256ZVLQ10](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 32BIT 256KB FLASH 144LQFP

Data sheet:  [K30\\_LQ/MD10 Datasheet](#)  
 [K30\\_LQ/MD10 Ref Manual](#)  
 [K30 Family Fact Sheet](#)

RoHs Status: Lead free / RoHS Compliant

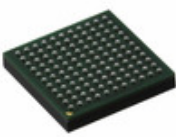
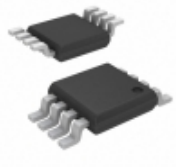
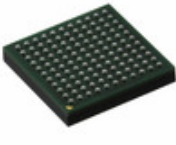
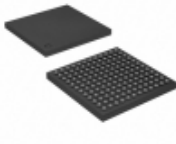
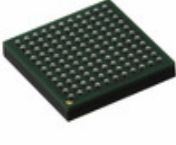
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See Product Specifications for product details.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                      |                                  |                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MK30DX256ZVLQ10                                                                                      | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                           |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 32BIT 256KB FLASH 144LQFP                                                                     | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                               |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8583 pcs                                                                                             | Data sheet                       | <a href="#">K30_LQ/MD10 Datasheet</a><br><a href="#">K30_LQ/MD10 Ref Manual</a><br><a href="#">K30 Family Fact Sheet</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                            | 100MHz                                                                                                                   |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Kinetis K30                                                                                          | RAM Size                         | 64K x 8                                                                                                                  |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                                                                                | Program Memory Size              | 256KB (256K x 8)                                                                                                         |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DMA, I <sup>2</sup> S, LCD, LVD, POR, PWM, WDT                                                       | Packaging                        | Tray                                                                                                                     |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 144-LQFP                                                                                             | Other Names                      | 935321625557                                                                                                             |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Internal                                                                                             | Operating Temperature            | -40°C ~ 105°C (TA)                                                                                                       |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 102                                                                                                  | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                            |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lead free / RoHS Compliant                                                                           | EEPROM Size                      | 4K x 8                                                                                                                   |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ARM® Cortex®-M4 Kinetis K30 Microcontroller IC 32-Bit 100MHz 256KB (256K x 8) FLASH 144-LQFP (20x20) | Data Converters                  | A/D 46x16b, D/A 2x12b                                                                                                    |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 32-Bit                                                                                               | Core Processor                   | ARM® Cortex®-M4                                                                                                          |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, SD, SPI, UART/USART                                         | Base Part Number                 | MK30DX256                                                                                                                |
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| RELATED PRODUCTS                                                                   |                                                                                        |                                                                   |                |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------|
|  | Part#: <a href="#">MK30DX64VMC7</a><br>Description: IC MCU 32BIT 64KB FLASH 121BGA     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK3200GLF</a><br>Description: IC CLOCK OSC 32.768KHZ 8MSOP          | Manufacturers: <a href="#">IDT (Integrated Device Technology)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK30DX64VMB7</a><br>Description: IC MCU 32BIT 64KB FLASH 81MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK30DX256VLQ10</a><br>Description: IC MCU 32BIT 256KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK30DX256VMC7</a><br>Description: IC MCU 32BIT 256KB FLASH 121BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK3200GLFT</a><br>Description: IC CLOCK OSC 32.768KHZ 8MSOP         | Manufacturers: <a href="#">IDT (Integrated Device Technology)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK30DX128VMB7</a><br>Description: IC MCU 32BIT 128KB FLASH 81BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK30DX256VLL7</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK30DX64VLK7</a><br>Description: IC MCU 32BIT 64KB FLASH 80LQFP     | Manufacturers: <a href="#">NXP USA Inc.</a>                       | <div>RFQ</div> |
|  | Part#: <a href="#">MK3200S</a><br>Description: IC CLOCK OSC 32.768KHZ 8-SOIC           | Manufacturers: <a href="#">IDT (Integrated Device Technology)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK30DX64VLK7R</a><br>Description: IC MCU 32BIT 64KB FLASH 80LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK30R1FE-R52</a><br>Description: RES 30.1 OHM 1/4W 1% AXIAL         | Manufacturers: <a href="#">Ohmite</a>                             | <div>RFQ</div> |
|  | Part#: <a href="#">MK30DX64VLH7</a><br>Description: IC MCU 32BIT 64KB FLASH 64LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK30DX256VMB7</a><br>Description: IC MCU 32BIT 256KB FLASH 81BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK30DX256VMD10</a><br>Description: IC MCU 32BIT 256KB FLASH 144BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK30DX256VLK7</a><br>Description: IC MCU 32BIT 256KB FLASH 80LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK30DX128VMC7</a><br>Description: IC MCU 32BIT 128KB FLASH 121BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK30DX256VLH7</a><br>Description: IC MCU 32BIT 256KB FLASH 64LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK30DX128VLL7</a><br>Description: IC MCU 32BIT 128KB FLASH 100LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK30DX256VLL7R</a><br>Description: KINETIS K 32-BIT MCU ARM CORTEX  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |

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