

MK40DX128ZVLQ10



Part Number: [MK40DX128ZVLQ10](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 32BIT 128KB FLASH 144LQFP

Data sheet:  [K40 Family Fact Sheet](#)  
 [K40\\_ZLQ/ZMD10 Ref Manual](#)  
 [K40\\_ZLQ/ZMD10 Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

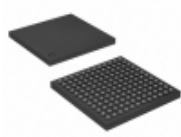
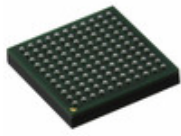
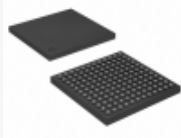
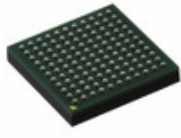
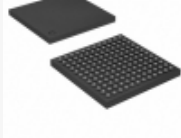
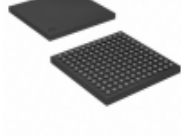
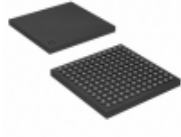
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                      |                                  |                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MK40DX128ZVLQ10                                                                                      | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                               |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 32BIT 128KB FLASH 144LQFP                                                                     | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                   |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9812 pcs                                                                                             | Data sheet                       | <a href="#">K40 Family Fact Sheet</a><br><a href="#">K40_ZLQ/ZMD10 Ref Manual</a><br><a href="#">K40_ZLQ/ZMD10 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                            | 100MHz                                                                                                                       |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Kinetis K40                                                                                          | RAM Size                         | 32K x 8                                                                                                                      |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                                                                                | Program Memory Size              | 128KB (128K x 8)                                                                                                             |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DMA, I <sup>2</sup> S, LCD, LVD, POR, PWM, WDT                                                       | Packaging                        | Tray                                                                                                                         |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 144-LQFP                                                                                             | Other Names                      | 935321657557                                                                                                                 |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Internal                                                                                             | Operating Temperature            | -40°C ~ 105°C (TA)                                                                                                           |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 98                                                                                                   | 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 K40 Microcontroller IC 32-Bit 100MHz 128KB (128K 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, EBI/EMI, I <sup>2</sup> C, IrDA, SD, SPI, UART/USART, USB, USB OTG                           | Base Part Number                 | MK40DX128                                                                                                                    |
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| RELATED PRODUCTS                                                                   |                                                                                         |                                                               |                |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------|
|  | Part#: <a href="#">MK40DX128VMD10</a><br>Description: IC MCU 32BIT 128KB FLASH 144BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK40DX128VLL7</a><br>Description: IC MCU 32BIT 128KB FLASH 100LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK40DX256VMC7</a><br>Description: IC MCU 32BIT 256KB FLASH 121BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK40DX256ZVMD10</a><br>Description: IC MCU 32BIT 256KB FLASH 144BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MK40DX256VLL7</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK40DN512ZVMD10</a><br>Description: IC MCU 32BIT 512KB FLASH 144BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK40DN512ZVLL10</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="#">MK40DX128VMB7</a><br>Description: IC MCU 32BIT 128KB FLASH 81BGA     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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