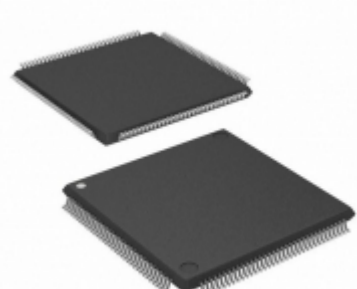


## MK40DN512ZVLQ10



**Part Number:** [MK40DN512ZVLQ10](#)  
**Manufacturer:** [NXP Semiconductors / Freescale](#)  
**Description:** IC MCU 32BIT 512KB FLASH 144LQFP  
**Data sheet:** [PDF K40 Family Fact Sheet](#)  
[PDF K40\\_ZLQ/ZMD10 Ref Manual](#)  
[PDF K40\\_ZLQ/ZMD10 Datasheet](#)

**RoHS Status:** Lead free / RoHS Compliant  
**Ship From:** Hong Kong  
**Shipment Way:** DHL/Fedex/TNT/UPS/EMS

Images are for reference only.  
 See Product Specifications for product details.  
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### PRODUCT PARAMETER

<b>Part Number</b>	<a href="#">MK40DN512ZVLQ10</a>
<b>Manufacturer</b>	<a href="#">NXP Semiconductors / Freescale</a>
<b>Description</b>	IC MCU 32BIT 512KB FLASH 144LQFP
<b>Lead Free Status / RoHS Status</b>	Lead free / RoHS Compliant
<b>Quantity Available</b>	10227 pcs
<b>Product Photo</b>	<a href="#">MK40DN512ZVLQ10.jpg</a>
<b>Category</b>	<a href="#">Integrated Circuits (ICs)</a>
<b>Voltage - Supply (Vcc/Vdd)</b>	1.71 V ~ 3.6 V
<b>Supplier Device Package</b>	144-LQFP (20x20)
<b>Speed</b>	100MHz
<b>Series</b>	Kinetis K40
<b>RAM Size</b>	128K x 8
<b>Program Memory Type</b>	FLASH
<b>Program Memory Size</b>	512KB (512K x 8)
<b>Peripherals</b>	DMA, I <sup>2</sup> S, LCD, LVD, POR, PWM, WDT
<b>Packaging</b>	Tray
<b>Package / Case</b>	144-LQFP
<b>Other Names</b>	935319775557
<b>Oscillator Type</b>	Internal
<b>Operating Temperature</b>	-40°C ~ 105°C (TA)
<b>Number of I/O</b>	98
<b>Moisture Sensitivity Level (MSL)</b>	3 (168 Hours)
<b>Lead Free Status / RoHS Status</b>	Lead free / RoHS Compliant
<b>EEPROM Size</b>	-
<b>Detailed Description</b>	ARM® Cortex®-M4 Kinetis K40 Microcontroller IC 32-Bit 100MHz 512KB (512K x 8) FLASH 144-LQFP (20x20)
<b>Data Converters</b>	A/D 42x16b, D/A 2x12b
<b>Core Size</b>	32-Bit
<b>Core Processor</b>	ARM® Cortex®-M4
<b>Connectivity</b>	CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, SD, SPI, UART/USART, USB, USB OTG
<b>Base Part Number</b>	MK40DN512

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	<b>Part#:</b> <a href="#">MK40DX128VLL7</a> <b>Description:</b> IC MCU 32BIT 128KB FLASH 100LQFP	<b>Manufacturers:</b> <a href="#">NXP Semiconductors / Freescale</a> <b>In Stock:</b> 14762	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">MK40DN512ZVMD10</a> <b>Description:</b> IC MCU 32BIT 512KB FLASH 144BGA	<b>Manufacturers:</b> <a href="#">NXP Semiconductors / Freescale</a> <b>In Stock:</b> 11961	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">MK40DX128VLK7</a> <b>Description:</b> IC MCU 32BIT 128KB FLASH 80LQFP	<b>Manufacturers:</b> <a href="#">NXP Semiconductors / Freescale</a> <b>In Stock:</b> 14644	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">MK40DN512VLK10</a> <b>Description:</b> IC MCU 32BIT 512KB FLASH 80LQFP	<b>Manufacturers:</b> <a href="#">NXP Semiconductors / Freescale</a> <b>In Stock:</b> 10486	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">MK4022FE-R52</a> <b>Description:</b> RES 40.2K OHM 1/4W 1% AXIAL	<b>Manufacturers:</b> <a href="#">Ohmite</a> <b>In Stock:</b> 2760493	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">MK40DX128VMD10</a> <b>Description:</b> IC MCU 32BIT 128KB FLASH 144BGA	<b>Manufacturers:</b> <a href="#">NXP Semiconductors / Freescale</a> <b>In Stock:</b> 10149	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">MK40DX256VLQ10</a> <b>Description:</b> IC MCU 32BIT 256KB FLASH 144LQFP	<b>Manufacturers:</b> <a href="#">NXP Semiconductors / Freescale</a> <b>In Stock:</b> 11764	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">MK40DX128VMB7</a> <b>Description:</b> IC MCU 32BIT 128KB FLASH 81BGA	<b>Manufacturers:</b> <a href="#">NXP Semiconductors / Freescale</a> <b>In Stock:</b> 4230	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">MK40DX256VMC7</a> <b>Description:</b> IC MCU 32BIT 256KB FLASH 121BGA	<b>Manufacturers:</b> <a href="#">NXP Semiconductors / Freescale</a> <b>In Stock:</b> 10617	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">MK40DN512ZVLL10</a> <b>Description:</b> IC MCU 32BIT 512KB FLASH 100LQFP	<b>Manufacturers:</b> <a href="#">NXP Semiconductors / Freescale</a> <b>In Stock:</b> 11050	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">MK40DX256VLK7</a> <b>Description:</b> IC MCU 32BIT 256KB FLASH 80LQFP	<b>Manufacturers:</b> <a href="#">NXP Semiconductors / Freescale</a> <b>In Stock:</b> 12922	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">MK40DN512VMD10</a> <b>Description:</b> IC MCU 32BIT 512KB FLASH 144BGA	<b>Manufacturers:</b> <a href="#">NXP Semiconductors / Freescale</a> <b>In Stock:</b> 10307	<a href="#">RFQ</a>
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	<b>Part#:</b> <a href="#">MK40DX256VLH7</a> <b>Description:</b> IC MCU 32BIT 256KB FLASH 64LQFP	<b>Manufacturers:</b> <a href="#">NXP Semiconductors / Freescale</a> <b>In Stock:</b> 11646	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">MK4020FE-R52</a> <b>Description:</b> RES 402 OHM 1/4W 1% AXIAL	<b>Manufacturers:</b> <a href="#">Ohmite</a> <b>In Stock:</b> 2895859	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">MK40DX128VMC7</a> <b>Description:</b> IC MCU 32BIT 128KB FLASH 121BGA	<b>Manufacturers:</b> <a href="#">NXP Semiconductors / Freescale</a> <b>In Stock:</b> 13627	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">MK40DX128ZVLQ10</a> <b>Description:</b> IC MCU 32BIT 128KB FLASH 144LQFP	<b>Manufacturers:</b> <a href="#">NXP Semiconductors / Freescale</a> <b>In Stock:</b> 9737	<a href="#">RFQ</a>

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