

Image may be representation.  
See specifications for product details.



## MK40DX64VMC7

Manufacturer Part Number	<b>MK40DX64VMC7</b>
Manufacturer	<b>Freescale Semiconductor, Inc. (NXP Semiconductors)</b>
Allelco Part Number	32D-MK40DX64VMC7
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 64KB FLSH 121MAPBGA
Package	121-LFBGA
Data sheet	MK40DX64VMC7.pdf

**Get a Quote**

MK40DX64VMC7 - Freescale Semiconductor.New Original in Stock. Download Linear Technology MK40DX64VMC7 datasheet/specifications on AllelcoElec.com.  
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### Specifications

MK40DX64VMC7 Tech Specifications

MK40DX64VMC7 - Freescale Semiconductor technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Freescale Semiconductor, Inc. (NXP Semiconductors)	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	Operating Temperature	-40°C ~ 105°C (TA)
Supplier Device Package	121-MAPBGA (8x8)	Number of I/O	74
Speed	72MHz	Mounting Type	Surface Mount
Series	Kinetis K40	EEPROM Size	2K x 8
RAM Size	16K x 8	Data Converters	A/D 34x16b; D/A 1x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	64KB (64K x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	DMA, I <sup>2</sup> S, LCD, LVD, POR, PWM, WDT	Connectivity	CANbus, I <sup>2</sup> C, IrDA, SPI, UART/USART, USB, USB OTG
Package / Case	121-LFBGA	Base Product Number	MK40DX64
Package	Bulk		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Freescale Semiconductor MK40DX64VMC7

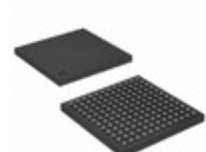
Product Attribute				
Part Number	MK40DX64VMC7	<b>MK40DX256VMD10</b>	<b>MK40DX256ZVMD10</b>	<b>MK40DX256ZVMD10</b>
Manufacturer	Freescale Semiconductor	NXP USA Inc.	NXP USA Inc.	Freescale Semiconductor
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Speed	72MHz	100MHz	100MHz	100MHz
EEPROM Size	2K x 8	4K x 8	4K x 8	4K x 8
Package / Case	121-LFBGA	144-LBGA	144-LBGA	144-LBGA
Supplier Device Package	121-MAPBGA (8x8)	144-MAPBGA (13x13)	144-MAPBGA (13x13)	144-LBGA (13x13)
Peripherals	DMA, I <sup>2</sup> S, LCD, LVD, POR, PWM, WDT	DMA, I <sup>2</sup> S, LCD, LVD, POR, PWM, WDT	DMA, I <sup>2</sup> S, LCD, LVD, POR, PWM, WDT	DMA, I <sup>2</sup> S, LCD, LVD, POR, PWM, WDT
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Series	Kinetis K40	Kinetis K40	Kinetis K40	Kinetis K40
RAM Size	16K x 8	64K x 8	64K x 8	64K x 8
Connectivity	CANbus, I <sup>2</sup> C, IrDA, SPI, UART/USART, USB, USB OTG	CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, SD, SPI, UART/USART, USB, USB OTG	CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, SD, SPI, UART/USART, USB, USB OTG	CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, SD, SPI, UART/USART, USB, USB OTG
Oscillator Type	Internal	Internal	Internal	Internal
Number of I/O	74	98	98	98
Program Memory Size	64KB (64K x 8)	256KB (256K x 8)	256KB (256K x 8)	256KB (256K x 8)
Data Converters	A/D 34x16b; D/A 1x12b	A/D 42x16b; D/A 2x12b	A/D 42x16b; D/A 2x12b	A/D 2x16b; D/A 2x12b
Base Product Number	MK40DX64	MK40DX256	MK40DX256	MK40DX256
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Package	Bulk	Tray	Tray	Bulk
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3V
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)

### Customers Also Interested in

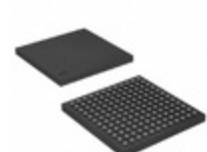
#### Recommended Products



**MK41H80N-20**  
STMicroelectronics



**MK40DX256VMD10**  
NXP USA Inc.  
IC MCU 32B 256KB FLASH  
144MAPBGA



**MK40DX256ZVMD10**  
NXP USA Inc.  
IC MCU 32B 256KB FLASH  
144MAPBGA



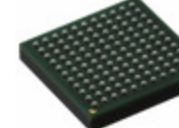
**MK41H69N-20**  
SGS



**MK41H67N-25**  
MOSTEK



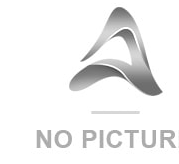
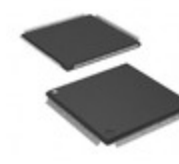
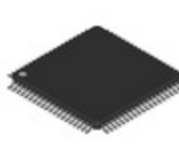
**MK40DX256ZVMD10**  
Freescale Semiconductor  
IC MCU 32BIT 256KB FLASH  
144LBGA

**MK40DX64VLH7**Freescale Semiconductor  
KINETIS K40: 72MHZ CORTEX-M4  
MCU**MK4116N-3GP**

MOSTEK

**MK40DX256VLQ10**NXP USA Inc.  
IC MCU 32BIT 256KB FLASH  
144LQFP**MK40DX64VLK7**NXP USA Inc.  
IC MCU 32BIT 64KB FLASH 80FQFP**MK40DX64VMC7**NXP USA Inc.  
IC MCU 32BIT 64KB FLSH  
121MAPBGA**MK4116P-2**

MOSTEK

**MK41H67N-20**

MOSTEK

**MK40DX64VLH7**NXP USA Inc.  
IC MCU 32BIT 64KB FLASH 64LQFP**MK40DX64VLK7**Freescale Semiconductor  
KINETIS K40: 72MHZ CORTEX-M4  
MCU**MK40DX256ZVLQ10**NXP USA Inc.  
IC MCU 32BIT 256KB FLASH  
144LQFP**MK41H68N-20**

MOSTEK

**MK41S80X12/20**

STMicroelectronics

## Shipment

### Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

### Delivery Cost

> Use your express account for shipment if you have one.

> Use our account for the shipment. Refer to the table below for the approximate charges.

(Different time frame / countries / package size has different price.)

### Delivery Method

> Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.

> Others more shipping ways, please get in touch with your customer manager.

**Common Countries Logistic Time Reference**

Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

**DHL & FedEx Shipment Charges Reference**

Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00

Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.  
Contact us if you have any questions.

### Payment Support

The payment method can be chosen from the methods shown below:

Wire Transfer (T/T, Bank Transfer), Western Union, Credit card,  
PayPal.



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Management



Cost-Saving  
Procurement



Fast Sourcing &  
Delivery

Contact us if you have any questions.



Phone

+00852 9146 4856



Email

info@allelco.com

### Certifications & Memberships



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