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See specifications for product details.



MK40DX128VMC7

Manufacturer Part Number	MK40DX128VMC7
Manufacturer	Freescale Semiconductor, Inc. (NXP Semiconductors)
Allelco Part Number	32D-MK40DX128VMC7
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32B 128KB FLASH 121MAPBGA
Package	121-LFBGA
Data sheet	K40_LL/MC7 Datasheet.pdf

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MK40DX128VMC7 - Freescale Semiconductor.New Original in Stock. Download Linear Technology MK40DX128VMC7 datasheet/specifications on AllelcoElec.com.
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Specifications

MK40DX128VMC7 Tech Specifications

MK40DX128VMC7 - 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	32K x 8	Data Converters	A/D 34x16b; D/A 1x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	128KB (128K x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	DMA, I ² S, LCD, LVD, POR, PWM, WDT	Connectivity	CANbus, I ² C, IrDA, SPI, UART/USART, USB, USB OTG
Package / Case	121-LFBGA	Base Product Number	MK40DX128
Package	Bulk		

Parts with Similar Specifications

The three parts on the right have similar specifications to Freescale Semiconductor MK40DX128VMC7

Product Attribute				
Part Number	MK40DX128VMC7	MK40DN512ZVLL10	MK40DX256ZVLQ10	MK40DX256VLL7
Manufacturer	Freescale Semiconductor	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V
Number of I/O	74	64	98	66
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Speed	72MHz	100MHz	100MHz	72MHz
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Program Memory Size	128KB (128K x 8)	512KB (512K x 8)	256KB (256K x 8)	256KB (256K x 8)
Connectivity	CANbus, I ² C, IrDA, SPI, UART/USART, USB, USB OTG	CANbus, I ² C, IrDA, SD, SPI, UART/USART, USB, USB OTG	CANbus, EBI/EMI, I ² C, IrDA, SD, SPI, UART/USART, USB, USB OTG	CANbus, I ² C, IrDA, SPI, UART/USART, USB, USB OTG
RAM Size	32K x 8	128K x 8	64K x 8	64K x 8
Data Converters	A/D 34x16b; D/A 1x12b	A/D 34x16b; D/A 1x12b	A/D 42x16b; D/A 2x12b	A/D 34x16b; D/A 1x12b
Package	Bulk	Tray	Tray	Tray
Package / Case	121-LFBGA	100-LQFP	144-LQFP	100-LQFP
Supplier Device Package	121-MAPBGA (8x8)	100-LQFP (14x14)	144-LQFP (20x20)	100-LQFP (14x14)
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Oscillator Type	Internal	Internal	Internal	Internal
EEPROM Size	2K x 8	-	4K x 8	2K x 8
Peripherals	DMA, I ² S, LCD, LVD, POR, PWM, WDT	DMA, I ² S, LCD, LVD, POR, PWM, WDT	DMA, I ² S, LCD, LVD, POR, PWM, WDT	DMA, I ² S, LCD, LVD, POR, PWM, WDT
Base Product Number	MK40DX128	MK40DN512	MK40DX256	MK40DX256
Series	Kinetis K40	Kinetis K40	Kinetis K40	Kinetis K40

MK40DX128VMC7 Datasheet PDF

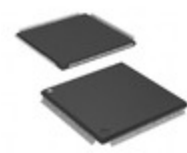
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Datasheets

K40_LL/MC7 Datasheet.pdf

Customers Also Interested in

Recommended Products



MK40DN512ZVLL10

NXP USA Inc.
IC MCU 32BIT 512KB FLASH
100LQFP



MK40DX256ZVLQ10

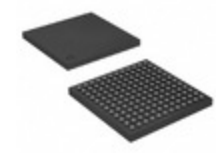
NXP USA Inc.
IC MCU 32BIT 256KB FLASH
144LQFP

MK40DX256VLL7

NXP USA Inc.
IC MCU 32BIT 256KB FLASH
100LQFP

MK40DX256VLQ10

NXP USA Inc.
IC MCU 32BIT 256KB FLASH
144LQFP



MK40DX128VLL7

NXP USA Inc.
IC MCU 32BIT 128KB FLASH
100LQFP

MK40DX256ZVMD10

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



MK40DN512VLL10

NXP USA Inc.
IC MCU 32BIT 512KB FLASH
100LQFP

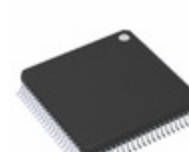


MK40DX128VLH7

NXP USA Inc.
IC MCU 32BIT 128KB FLASH 64LQFP

MK40DX256VLH7

NXP USA Inc.
IC MCU 32BIT 256KB FLASH 64LQFP



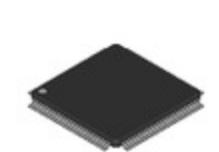
MK40DX128VLK7

NXP USA Inc.
IC MCU 32BIT 128KB FLASH 80FQFP



MK40DN512VLK10

NXP USA Inc.
IC MCU 32BIT 512KB FLASH 80FQFP



MK40DX256VLL7

Freescale Semiconductor
IC MCU 32BIT 256KB FLASH
100LQFP



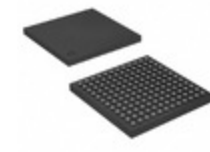
MK40DN512ZVLQ10

NXP USA Inc.
IC MCU 32BIT 512KB FLASH
144LQFP



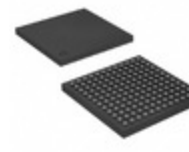
MK40DN512VLQ10

NXP USA Inc.
IC MCU 32BIT 512KB FLASH
144LQFP



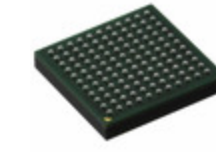
MK40DX128VMD10

NXP USA Inc.
IC MCU 32B 128KB FLASH
144MAPBGA



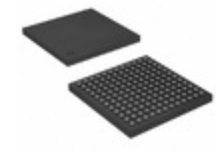
MK40DX256VMD10

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



MK40DX128VMC7

NXP USA Inc.
IC MCU 32B 128KB FLASH
121MAPBGA



MK40DN512VMD10

NXP USA Inc.
IC MCU 32B 512KB FLASH
144MAPBGA

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.



Your Faithful Supply Chain Partner -



Efficient Supply
Management



Cost-Saving
Procurement



Fast Sourcing &
Delivery

Contact us if you have any questions.



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Certifications & Memberships



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