

Image may be representation.
See specifications for product details.



MK10DX256VMC7

Manufacturer Part Number	MK10DX256VMC7
Manufacturer	NXP Semiconductors
Allelco Part Number	32D-MK10DX256VMC7
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32B 256KB FLASH 121MAPBGA
Package	121-LFBGA
Data sheet	K10 Family Fact Sheet.pdf K10 Family Fact Sheet.pdf K10_LL/MC7 Datasheet.pdf K10_LL/MC7 Ref Manual.pdf
RoHS Status	ROHS3 Compliant

Get a Quote

MK10DX256VMC7 - NXP USA Inc..New Original in Stock. Download Linear Technology MK10DX256VMC7 datasheet/specifications on AllelcoElec.com.
Request a quote for MK10DX256VMC7, please send us email: info@allelco.com

Specifications

MK10DX256VMC7 Tech Specifications
MK10DX256VMC7 - NXP USA Inc. technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	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 K10	EEPROM Size	2K x 8
RAM Size	64K x 8	Data Converters	A/D 39x16b; D/A 1x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	256KB (256K x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	DMA, I ² S, LVD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, I ² C, IrDA, SPI, UART/USART
Package / Case	121-LFBGA	Base Product Number	MK10DX256
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MK10DX256VMC7

Product Attribute				
Part Number	MK10DX256VMC7	MK10DX256VLL7	MK10DX128VMP5	MK10DX128VLQ10
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
EEPROM Size	2K x 8	2K x 8	2K x 8	2K x 8
Speed	72MHz	72MHz	50MHz	100MHz
Series	Kinetis K10	Kinetis K10	Kinetis K10	Kinetis K10
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)
Connectivity	CANbus, EBI/EMI, I ² C, IrDA, SPI, UART/USART	CANbus, EBI/EMI, I ² C, IrDA, SPI, UART/USART	I ² C, IrDA, SPI, UART/USART	CANbus, EBI/EMI, I ² C, IrDA, SPI, UART/USART
RAM Size	64K x 8	64K x 8	16K x 8	32K x 8
Program Memory Size	256KB (256K x 8)	256KB (256K x 8)	128KB (128K x 8)	128KB (128K x 8)
Peripherals	DMA, I ² S, LVD, POR, PWM, WDT	DMA, I ² S, LVD, POR, PWM, WDT	DMA, I ² S, LVD, POR, PWM, WDT	DMA, I ² S, LVD, POR, PWM, WDT
Oscillator Type	Internal	Internal	Internal	Internal
Package	Tray	Tray	Tray	Tray
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	70	44	104
Data Converters	A/D 39x16b; D/A 1x12b	A/D 37x16b; D/A 1x12b	A/D 19x16b	A/D 46x16b; D/A 2x12b
Supplier Device Package	121-MAPBGA (8x8)	100-LQFP (14x14)	64-MAPBGA (5x5)	144-LQFP (20x20)
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package / Case	121-LFBGA	100-LQFP	64-LFBGA	144-LQFP
Base Product Number	MK10DX256	MK10DX256	MK10DX128	MK10DX128
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core

MK10DX256VMC7 Datasheet PDF

Download MK10DX256VMC7 pdf datasheets and NXP USA Inc. documentation for MK10DX256VMC7 - NXP USA Inc..

Datasheets

[K10 Family Fact Sheet.pdf](#)

[K10_LL/MC7 Datasheet.pdf](#)

[K10_LL/MC7 Ref Manual.pdf](#)

PCN Packaging



All Dev Label Update 15/Dec/2020.pdf



Mult Dev Pkg Seal 15/Dec/2020.pdf

Environmental Information



NXP USA Inc REACH.pdf



NXP USA Inc RoHS Cert.pdf

PCN Assembly/Origin



Mult Dev Site Chgs 18/Dec/2020.pdf

HTML Datasheet



K10 Family Fact Sheet.pdf

PCN Design/Specification



KINETIS K Series 08/Apr/2013.pdf

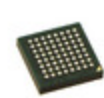
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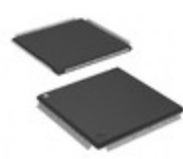
MK10DX256VLL7

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



MK10DX128VMP5

NXP USA Inc.
IC MCU 32BIT 128KB FLSH
64MAPBGA



MK10DX128VLQ10

NXP USA Inc.
IC MCU 32BIT 128KB FLASH
144LQFP



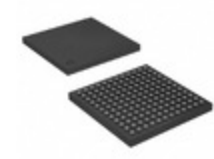
MK10DX32VLF5

NXP USA Inc.
IC MCU 32BIT 32KB FLASH 48LQFP



MK10DX128VMC7

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



MK10DX256VMD10

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



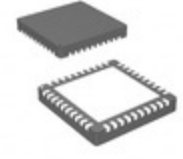
MK10DX32VMP5

NXP USA Inc.
IC MCU 32BIT 32KB FLASH
64MAPBGA



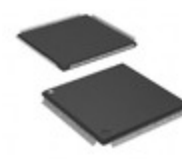
MK10DX256VLK7R

NXP USA Inc.
IC MCU 32BIT 256KB FLASH 80FQFP



MK10DX32VFM5

NXP USA Inc.
IC MCU 32BIT 32KB FLASH 32QFN



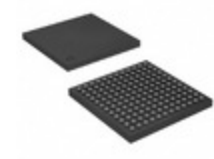
MK10DX256ZVLQ10

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



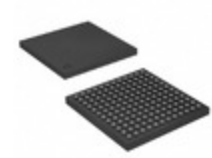
MK10DX256VLQ10

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



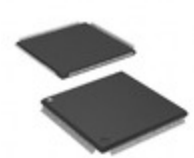
MK10DX256ZVMD10

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



MK10DX128VMD10

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



MK10DX256ZVLQ10R

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



MK10DX32VLH5

Freescale Semiconductor
IC MCU 32BIT 32KB FLASH 64LQFP



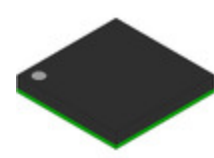
MK10DX256VLH7

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



MK10DX32VLH5

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



MK10DX32VMP5

Freescale Semiconductor
KINETIS K10: 50MHZ CORTEX-M4
PER

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 Alleco 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.

Certifications & Memberships





Phone

+00852 9146 4856



Email

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