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See specifications for product details.



## MK10DX128VLH5

Manufacturer Part Number	<b>MK10DX128VLH5</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-MK10DX128VLH5
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 128KB FLASH 64LQFP
Package	64-LQFP
Data sheet	<a href="#">K10 Family Fact Sheet.pdf</a> <a href="#">K10 Family Fact Sheet.pdf</a> <a href="#">K10_LH/MP5 Datasheet.pdf</a>
RoHs Status	ROHS3 Compliant

**Get a Quote**

MK10DX128VLH5 - NXP USA Inc..New Original in Stock. Download Linear Technology MK10DX128VLH5 datasheet/specifications on AllelcoElec.com.  
Request a quote for MK10DX128VLH5, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

MK10DX128VLH5 Tech Specifications

MK10DX128VLH5 - 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	64-LQFP (10x10)	Number of I/O	44
Speed	50MHz	Mounting Type	Surface Mount
Series	Kinetis K10	EEPROM Size	2K x 8
RAM Size	16K x 8	Data Converters	A/D 19x16b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	128KB (128K x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	DMA, I²S, LVD, POR, PWM, WDT	Connectivity	I²C, IrDA, SPI, UART/USART
Package / Case	64-LQFP	Base Product Number	MK10DX128
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MK10DX128VLH5

Product Attribute				
Part Number	MK10DX128VLH5	<a href="#">MK10DN512ZVMC10</a>	<a href="#">MK10DX128VMP5</a>	<a href="#">MK10DX128VLK7R</a>
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
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)
Package	Tray	Tray	Tray	Tape & Reel (TR)
EEPROM Size	2K x 8	-	2K x 8	2K x 8
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Connectivity	I²C, IrDA, SPI, UART/USART	CANbus, EBI/EMI, I²C, IrDA, SD, SPI, UART/USART	I²C, IrDA, SPI, UART/USART	CANbus, EBI/EMI, I²C, IrDA, SPI, UART/USART
Package / Case	64-LQFP	121-LFBGA	64-LFBGA	80-LQFP
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Size	128KB (128K x 8)	512KB (512K x 8)	128KB (128K x 8)	128KB (128K x 8)
Speed	50MHz	100MHz	50MHz	72MHz
Peripherals	DMA, I²S, LVD, POR, PWM, WDT	DMA, I²S, LVD, POR, PWM, WDT	DMA, I²S, LVD, POR, PWM, WDT	DMA, I²S, LVD, POR, PWM, WDT
Number of I/O	44	90	44	56
Base Product Number	MK10DX128	MK10DN512	MK10DX128	MK10DX128
Data Converters	A/D 19x16b	A/D 42x16b; D/A 2x12b	A/D 19x16b	A/D 31x16b; D/A 1x12b
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Oscillator Type	Internal	Internal	Internal	Internal
Supplier Device Package	64-LQFP (10x10)	121-MAPBGA (8x8)	64-MAPBGA (5x5)	80-FQFP (12x12)
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V
RAM Size	16K x 8	128K x 8	16K x 8	32K x 8

## MK10DX128VLH5 Datasheet PDF

Download MK10DX128VLH5 pdf datasheets and NXP USA Inc. documentation for MK10DX128VLH5 - NXP USA Inc..


### Datasheets

[K10 Family Fact Sheet.pdf](#)

[K10\\_LH/MP5 Datasheet.pdf](#)

### Environmental Information

 NXP USA Inc REACH.pdf

 NXP USA Inc RoHS Cert.pdf

### PCN Packaging

 Mult Dev Pkg Seal 15/Dec/2020.pdf

 Mult Dev Pkg Chgs 8/Feb/2022.pdf

### PCN Assembly/Origin


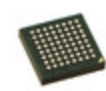
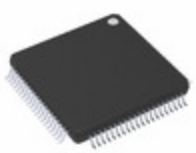


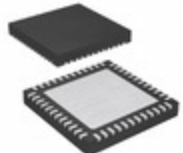

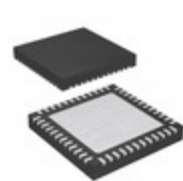







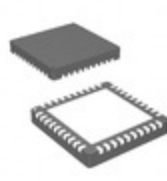
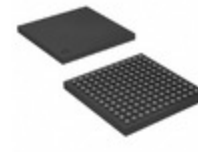
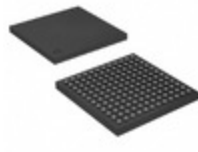
 Mult Dev Site Chgs 18/Dec/2020.pdf

### HTML Datasheet

 K10 Family Fact Sheet.pdf

## Customers Also Interested in

### Recommended Products

 <b>MK10DN512ZVMC10</b> NXP USA Inc. IC MCU 32B 512KB FLASH 121MAPBGA	 <b>MK10DX128VMP5</b> NXP USA Inc. IC MCU 32BIT 128KB FLSH 64MAPBGA	 <b>MK10DX128VLK7R</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 80FQFP	 <b>MK10DX128VLK7</b> Freescale Semiconductor IC MCU 32BIT 128KB FLASH 80FQFP	 <b>MK10DX128VLF</b> Freescale / NXP Semiconductors	 <b>MK10DX128VFT5</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 48QFN
 <b>MK10DX128VLH7</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 64LQFP	 <b>MK10DN64VFT5</b> NXP USA Inc. IC MCU 32BIT 64KB FLASH 48QFN	 <b>MK10DN64VLH5</b> NXP USA Inc. IC MCU 32BIT 64KB FLASH 64LQFP	 <b>MK10DX128VLF5</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 48LQFP	 <b>MK10DN64VFM5</b> NXP USA Inc. IC MCU 32BIT 64KB FLASH 32QFN	 <b>MK10DX128VLQ10</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 144LQFP
 <b>MK10DX128VLL7</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 100LQFP	 <b>MK10DX128VLK7</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 80FQFP	 <b>MK10DX128VMC7</b> NXP USA Inc. IC MCU 32B 128KB FLASH 121MAPBGA	 <b>MK10DX128VFM5</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 32QFN	 <b>MK10DN512ZVMD10</b> NXP USA Inc. IC MCU 32B 512KB FLASH 144MAPBGA	 <b>MK10DX128VMD10</b> NXP USA Inc. IC MCU 32B 128KB 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 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
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Contact us if you have any questions.

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### Certifications & Memberships



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