

Image may be representation.  
See specifications for product details.



## MK20DX256VLH7

Manufacturer Part Number	<b>MK20DX256VLH7</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-MK20DX256VLH7
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 256KB FLASH 64LQFP
Package	64-LQFP
Data sheet	<a href="#">K2x USB MCU Family Fact Sheet.pdf</a> <a href="#">K20_LH7 Datasheet.pdf</a> <a href="#">K20_LH7 Ref Manual.pdf</a>
RoHs Status	ROHS3 Compliant

**Get a Quote**

MK20DX256VLH7 - NXP USA Inc..New Original in Stock. Download Linear Technology MK20DX256VLH7 datasheet/specifications on AllelcoElec.com.  
Request a quote for MK20DX256VLH7, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

MK20DX256VLH7 Tech Specifications  
MK20DX256VLH7 - 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	40
Speed	72MHz	Mounting Type	Surface Mount
Series	Kinetis K20	EEPROM Size	2K x 8
RAM Size	64K x 8	Data Converters	A/D 24x16b; 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, I²S, LVD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, I²C, IrDA, SPI, UART/USART, USB, USB OTG
Package / Case	64-LQFP	Base Product Number	MK20DX256
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MK20DX256VLH7

Product Attribute				
Part Number	MK20DX256VLH7	MK20DX256VLK10	MK20DX128VMP5	MK20DX128VLL7
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V
Series	Kinetis K20	Kinetis K20	Kinetis K20	Kinetis K20
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)
Oscillator Type	Internal	Internal	Internal	Internal
EEPROM Size	2K x 8	4K x 8	2K x 8	2K x 8
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	40	52	40	66
Package	Tray	Tray	Tray	Tray
Program Memory Size	256KB (256K x 8)	256KB (256K x 8)	128KB (128K x 8)	128KB (128K x 8)
Speed	72MHz	100MHz	50MHz	72MHz
Base Product Number	MK20DX256	MK20DX256	MK20DX128	MK20DX128
Connectivity	CANbus, EBI/EMI, I²C, IrDA, SPI, UART/USART, USB, USB OTG	CANbus, EBI/EMI, I²C, IrDA, SD, SPI, UART/USART, USB, USB OTG	I²C, IrDA, SPI, UART/USART, USB, USB OTG	CANbus, EBI/EMI, I²C, IrDA, SPI, UART/USART, USB, USB OTG
RAM Size	64K x 8	64K x 8	16K x 8	32K x 8
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Supplier Device Package	64-LQFP (10x10)	80-FQFP (12x12)	64-MAPBGA (5x5)	100-LQFP (14x14)
Data Converters	A/D 24x16b; D/A 1x12b	A/D 27x16b; D/A 1x12b	A/D 13x16b	A/D 33x16b; D/A 1x12b
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Package / Case	64-LQFP	80-LQFP	64-LFBGA	100-LQFP
Program Memory Type	FLASH	FLASH	FLASH	FLASH

## MK20DX256VLH7 Datasheet PDF


Download MK20DX256VLH7 pdf datasheets and NXP USA Inc. documentation for MK20DX256VLH7 - NXP USA Inc..

### Datasheets

- [K2x USB MCU Family Fact Sheet.pdf](#)
- [K20\\_LH7 Datasheet.pdf](#)
- [K20\\_LH7 Ref Manual.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

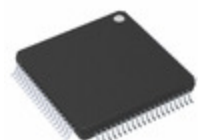
 2.73KHz.pdf

## PCN Design/Specification

 KINETIS K Series 08/Apr/2013.pdf

## Customers Also Interested in

### Recommended Products



#### MK20DX256VLK10

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



#### MK20DX128VMP5

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



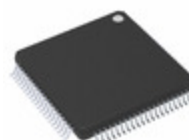
#### MK20DX128VLL7

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



#### MK20DX256VLL10

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



#### MK20DX128VLK7

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



#### MK20DX256VLQ10R

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



#### MK20DX256V7

Freescale / NXP Semiconductors



#### MK20DX256V10

Freescale / NXP Semiconductors



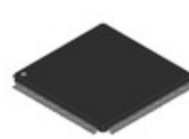
#### MK20DX256VLK7

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



#### MK20DX128ZVLQ10

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



#### MK20DX128ZVLQ10

Freescale Semiconductor  
IC MCU 32BIT 128KB FLASH 144LQFP



#### MK20DX128VLH7

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



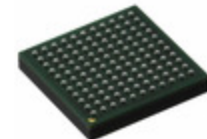
#### MK20DX256VLL7

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



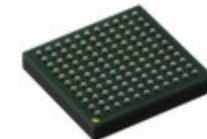
#### MK20DX256VLK7R

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



#### MK20DX256VMC7

NXP USA Inc.  
IC MCU 32B 256KB FLASH 121MAPBGA



#### MK20DX256VMC10

NXP USA Inc.  
IC MCU 32B 256KB FLASH 121MAPBGA



#### MK20DX256VLQ10

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



#### MK20DX128VLH5

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

## 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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+00852 9146 4856



Email

info@allelco.com

## Certifications & Memberships



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