



Image may be representation.  
See specifications for product details.



## MK20DX128VLK7

Manufacturer Part Number	<b>MK20DX128VLK7</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-MK20DX128VLK7
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 128KB FLASH 80FQFP
Package	80-LQFP
Data sheet	<a href="#">K2x USB MCU Family Fact Sheet.pdf</a> <a href="#">K20_LK7 Datasheet.pdf</a> <a href="#">K20_LK7 Ref Manual.pdf</a>
RoHs Status	ROHS3 Compliant

**Get a Quote**

MK20DX128VLK7 - NXP USA Inc..New Original in Stock. Download Linear Technology MK20DX128VLK7 datasheet/specifications on AllelcoElec.com.  
Request a quote for MK20DX128VLK7, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

MK20DX128VLK7 Tech Specifications  
MK20DX128VLK7 - 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	80-FQFP (12x12)	Number of I/O	52
Speed	72MHz	Mounting Type	Surface Mount
Series	Kinetis K20	EEPROM Size	2K x 8
RAM Size	32K x 8	Data Converters	A/D 27x16b; 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, I²S, LVD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, I²C, IrDA, SPI, UART/USART, USB, USB OTG
Package / Case	80-LQFP	Base Product Number	MK20DX128
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MK20DX128VLK7

Product Attribute				
Part Number	MK20DX128VLK7	<b>MK20DX256VLK10</b>	<b>MK20DX128ZVLQ10</b>	<b>MK20DX128VLL7</b>
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Program Memory Type	FLASH	FLASH	FLASH	FLASH
RAM Size	32K x 8	64K x 8	32K x 8	32K x 8
Series	Kinetis K20	Kinetis K20	Kinetis K20	Kinetis K20
Package / Case	80-LQFP	80-LQFP	144-LQFP	100-LQFP
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)
EEPROM Size	2K x 8	4K x 8	4K x 8	2K x 8
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Size	128KB (128K x 8)	256KB (256K x 8)	128KB (128K x 8)	128KB (128K x 8)
Number of I/O	52	52	100	66
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V
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
Connectivity	CANbus, EBI/EMI, I²C, IrDA, SPI, UART/USART, USB, USB OTG	CANbus, EBI/EMI, I²C, IrDA, SD, SPI, UART/USART, USB, USB OTG	CANbus, EBI/EMI, I²C, IrDA, SD, SPI, UART/USART, USB, USB OTG	CANbus, EBI/EMI, I²C, IrDA, SPI, UART/USART, USB, USB OTG
Speed	72MHz	100MHz	100MHz	72MHz
Base Product Number	MK20DX128	MK20DX256	MK20DX128	MK20DX128
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
Oscillator Type	Internal	Internal	Internal	Internal
Data Converters	A/D 27x16b; D/A 1x12b	A/D 27x16b; D/A 1x12b	A/D 42x16b; D/A 2x12b	A/D 33x16b; D/A 1x12b
Supplier Device Package	80-FQFP (12x12)	80-FQFP (12x12)	144-LQFP (20x20)	100-LQFP (14x14)
Package	Tray	Tray	Tray	Tray

### MK20DX128VLK7 Datasheet PDF

Download MK20DX128VLK7 pdf datasheets and NXP USA Inc. documentation for MK20DX128VLK7 - NXP USA Inc..

#### Datasheets

- [K2x USB MCU Family Fact Sheet.pdf](#)
- [K20\\_LK7 Datasheet.pdf](#)
- [K20\\_LK7 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

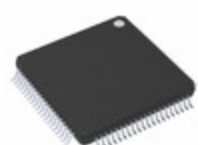
Assembly Site 05/Oct/2022.pdf

### 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



**MK20DX128ZVLQ10**

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



**MK20DX128VLL7**

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



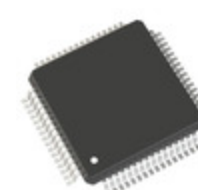
**MK20DX128VLH5**

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



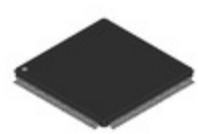
**MK20DN64VMP5**

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



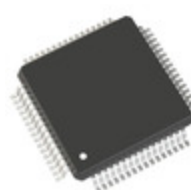
**MK20DX256VLH7**

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



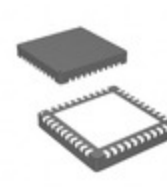
**MK20DX128ZVLQ10**

Freescale Semiconductor  
IC MCU 32BIT 128KB FLASH 144LQFP



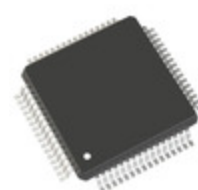
**MK20DX128VLH7**

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



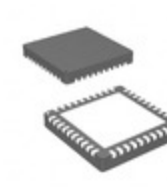
**MK20DN64VFM5**

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



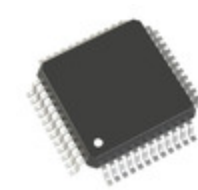
**MK20DN64VLH5**

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



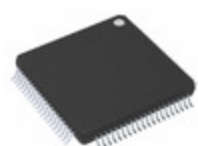
**MK20DX128VFM5**

NXP USA Inc.  
IC MCU 32BIT 128KB FLASH 32QFN



**MK20DX128VLF5**

NXP USA Inc.  
IC MCU 32BIT 128KB FLASH 48LQFP



**MK20DX256VLK7R**

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



**MK20DX256V10**

Freescale / NXP Semiconductors



**MK20DX256VLK7**

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



**MK20DN5ZVMB10**

Freescale / NXP Semiconductors



**MK20DX256V7**

Freescale / NXP Semiconductors



**MK20DX128VMP5**

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

## 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.

- Phone  
+00852 9146 4856
- Email  
info@allelco.com

### Certifications & Memberships



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