



Image may be representation.  
See specifications for product details.



## MK20DN512ZVLK10

Manufacturer Part Number	<b>MK20DN512ZVLK10</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-MK20DN512ZVLK10
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 512KB FLASH 80FQFP
Package	80-LQFP
Data sheet	<b>K2x USB MCU Family Fact Sheet.pdf</b> <b>K20 Sub Family.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

MK20DN512ZVLK10 - NXP USA Inc..New Original in Stock. Download Linear Technology MK20DN512ZVLK10 datasheet/specifications on AllelcoElec.com.  
Request a quote for MK20DN512ZVLK10, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

MK20DN512ZVLK10 Tech Specifications  
MK20DN512ZVLK10 - 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	100MHz	Mounting Type	Surface Mount
Series	Kinetis K20	EEPROM Size	-
RAM Size	128K x 8	Data Converters	A/D 27x16b; D/A 1x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	512KB (512K x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	DMA, I²S, LVD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, I²C, IrDA, SD, SPI, UART/USART, USB, USB OTG
Package / Case	80-LQFP	Base Product Number	MK20DN512
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MK20DN512ZVLK10

Product Attribute				
Part Number	MK20DN512ZVLK10	MK20DN512VMC10	MK20DN32VLH5	MK20DN128VMP5
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Package / Case	80-LQFP	121-LFBGA	64-LQFP	64-LFBGA
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Connectivity	CANbus, EBI/EMI, I²C, IrDA, SD, 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	I²C, IrDA, SPI, UART/USART, USB, USB OTG
Data Converters	A/D 27x16b; D/A 1x12b	A/D 38x16b; D/A 2x12b	A/D 13x16b	A/D 13x16b
Number of I/O	52	66	40	40
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
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Series	Kinetis K20	Kinetis K20	Kinetis K20	Kinetis K20
Program Memory Size	512KB (512K x 8)	512KB (512K x 8)	32KB (32K x 8)	128KB (128K x 8)
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Speed	100MHz	100MHz	50MHz	50MHz
Package	Tray	Tray	Tray	Tray
Supplier Device Package	80-FQFP (12x12)	121-MAPBGA (8x8)	64-LQFP (10x10)	64-MAPBGA (5x5)
RAM Size	128K x 8	128K x 8	8K x 8	16K x 8
Oscillator Type	Internal	Internal	Internal	Internal
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)
Base Product Number	MK20DN512	MK20DN512	MK20DN32	MK20DN128
EEPROM Size	-	-	-	-
Program Memory Type	FLASH	FLASH	FLASH	FLASH

## MK20DN512ZVLK10 Datasheet PDF

Download MK20DN512ZVLK10 pdf datasheets and NXP USA Inc. documentation for MK20DN512ZVLK10 - NXP USA Inc..

### Datasheets

[K2x USB MCU Family Fact Sheet.pdf](#)

[K20 Sub Family.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

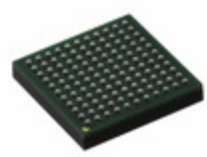
NXP USA Inc RoHS Cert.pdf

### PCN Assembly/Origin

2.73KHz.pdf

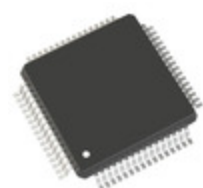
### Customers Also Interested in

### Recommended Products



#### MK20DN512VMC10

NXP USA Inc.  
IC MCU 32B 512KB FLASH  
121MAPBGA



#### MK20DN32V LH5

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



#### MK20DN128VMP5

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



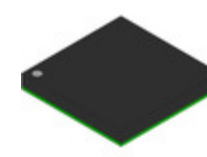
#### MK20DN512ZVMC10R

NXP USA Inc.  
IC MCU 32B 512KB FLASH  
121MAPBGA



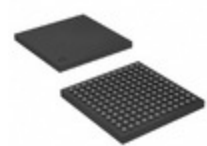
#### MK20DN512ZVMB10

NXP USA Inc.  
IC MCU 32BIT 512KB FLSH  
81MAPBGA



#### MK20DN512ZVMD10

Freescale Semiconductor  
IC MCU 32B 512KB FLASH  
144MAPBGA



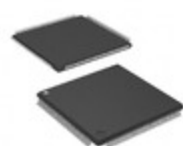
#### MK20DN512ZVMD10

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



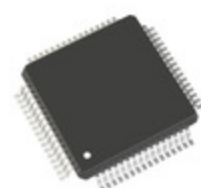
#### MK20DN512VLL10

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



#### MK20DN512ZVLQ10R

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



#### MK20DN128V LH5

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



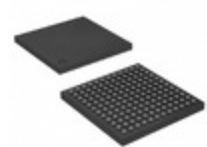
#### MK20DN512V10

Freescale / NXP Semiconductors



#### MK20DN512VLL10

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



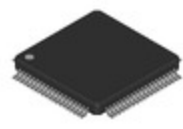
#### MK20DN512ZVMD10

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



#### MK20DN512ZVMC10

NXP USA Inc.  
IC MCU 32B 512KB FLASH  
121MAPBGA



#### MK20DN512ZVLK10

Freescale Semiconductor  
IC MCU 32BIT 512KB FLASH 80LQFP



#### MK20DN512VLK10

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



#### MK20DN512VLQ10

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



#### MK20DN512ZVLQ10

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

### 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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