



Image may be representation.
See specifications for product details.



MK20DN512VLK10

Manufacturer Part Number **MK20DN512VLK10**

Manufacturer **NXP Semiconductors**

Allelco Part Number **32D-MK20DN512VLK10**

ECAD Model [Request Free CAD Models](#)

Parts Description **IC MCU 32BIT 512KB FLASH 80FQFP**

Package **80-LQFP**

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

[K20_LK/MB10 Ref Manual.pdf](#)

[K20_LK10 Datasheet.pdf](#)

RoHs Status **ROHS3 Compliant**

Get a Quote

MK20DN512VLK10 - NXP USA Inc..New Original in Stock. Download Linear Technology MK20DN512VLK10 datasheet/specifications on AllelcoElec.com.
Request a quote for MK20DN512VLK10, please send us email: info@allelco.com

Specifications

MK20DN512VLK10 Tech Specifications

MK20DN512VLK10 - 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. MK20DN512VLK10

Product Attribute				
Part Number	MK20DN512VLK10	MK20DN128VMP5	MK20DN512VLL10	MK20DN512VLQ10
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Base Product Number	MK20DN512	MK20DN128	MK20DN512	MK20DN512
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Oscillator Type	Internal	Internal	Internal	Internal
Supplier Device Package	80-FQFP (12x12)	64-MAPBGA (5x5)	100-LQFP (14x14)	144-LQFP (20x20)
RAM Size	128K x 8	16K x 8	128K x 8	128K x 8
Number of I/O	52	40	66	100
Data Converters	A/D 27x16b; D/A 1x12b	A/D 13x16b	A/D 33x16b; D/A 1x12b	A/D 42x16b; D/A 2x12b
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	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
EEPROM Size	-	-	-	-
Program Memory Size	512KB (512K x 8)	128KB (128K x 8)	512KB (512K x 8)	512KB (512K x 8)
Speed	100MHz	50MHz	100MHz	100MHz
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)
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
Package	Tray	Tray	Tray	Tray
Package / Case	80-LQFP	64-LFBGA	100-LQFP	144-LQFP
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Series	Kinetis K20	Kinetis K20	Kinetis K20	Kinetis K20

MK20DN512VLK10 Datasheet PDF

Download MK20DN512VLK10 pdf datasheets and NXP USA Inc. documentation for MK20DN512VLK10 - NXP USA Inc..

Datasheets



K2x USB MCU Family Fact Sheet.pdf



K20_LK/MB10 Ref Manual.pdf



K20_LK10 Datasheet.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 Design/Specification

Mult Dev 25/May/2020.pdf

Trace Marking Removal 20/Jun/2019.pdf

PCN Assembly/Origin

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Recommended Products



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IC CLOCK SYNCHRONIZER 56TSSOP



MK20DN128VMP5

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



MK20DN512VLL10

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



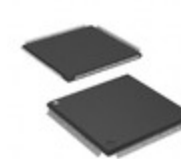
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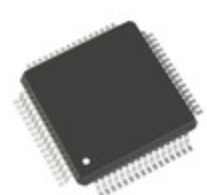
MK20DN512VLQ10

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



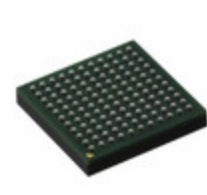
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IC MCU 32BIT 512KB FLASH 144LQFP



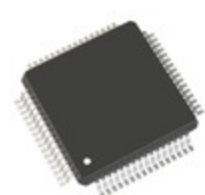
MK20DN32VLLH5

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



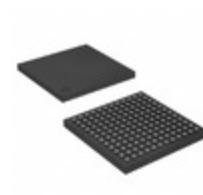
MK20DN512VMC10

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



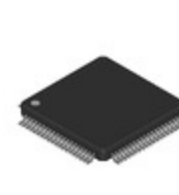
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NXP USA Inc.
IC MCU 32BIT 128KB FLASH 64LQFP



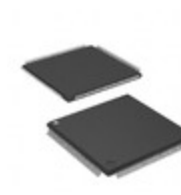
MK20DN512VMD10

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



MK20DN512ZVLK10

Freescale Semiconductor
IC MCU 32BIT 512KB FLASH 80LQFP



MK20DN512ZVLQ10R

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



MK20DN512ZVLL10

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



MK20DN512ZVLK10

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



MK20DN128VLF5

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



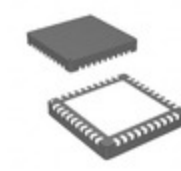
MK2069-01GITR

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MK2069-04GILFTR

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MK20DN128VFM5

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

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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