

Image may be representation.
See specifications for product details.



MK20DX128VFM5

Manufacturer Part Number **MK20DX128VFM5**

Manufacturer **NXP Semiconductors**

Allelco Part Number **32D-MK20DX128VFM5**

ECAD Model  PCB Symbol, Footprint & 3D Mode

Parts Description **IC MCU 32BIT 128KB FLASH 32QFN**

Package **32-VFQFN Exposed Pad**

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

[K20_FM5 Datasheet.pdf](#)

[K20_FM5 Ref Manual.pdf](#)

RoHs Status  **ROHS3 Compliant**

Get a Quote

MK20DX128VFM5 - NXP USA Inc..New Original in Stock. Download Linear Technology MK20DX128VFM5 datasheet/specifications on AllelcoElec.com.
Request a quote for MK20DX128VFM5, please send us email: info@allelco.com

Specifications

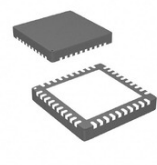

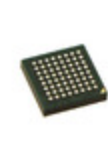

MK20DX128VFM5 Tech Specifications

MK20DX128VFM5 - 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	32-QFN-EP (5x5)	Number of I/O	20
Speed	50MHz	Mounting Type	Surface Mount
Series	Kinetis K20	EEPROM Size	2K x 8
RAM Size	16K x 8	Data Converters	A/D 6x16b
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, USB, USB OTG
Package / Case	32-VFQFN Exposed Pad	Base Product Number	MK20DX128
Package	Tray		

Parts with Similar Specifications

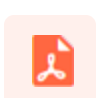
The three parts on the right have similar specifications to NXP USA Inc. MK20DX128VFM5

Product Attribute				
Part Number	MK20DX128VFM5	MK20DN512ZVMD10	MK20DN64VMP5	MK20DN64VLH5
Manufacturer	NXP USA Inc.	Freescle Semiconductor	NXP USA Inc.	NXP USA Inc.
Connectivity	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	I²C, IrDA, SPI, UART/USART, USB, USB OTG
Data Converters	A/D 6x16b	A/D 42x16b; D/A 2x12b	A/D 13x16b	A/D 13x16b
Package	Tray	Bulk	Tray	Tray
RAM Size	16K x 8	128K x 8	16K x 8	16K x 8
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Speed	50MHz	100MHz	50MHz	50MHz
EEPROM Size	2K x 8	-	-	-
Package / Case	32-VFQFN Exposed Pad	144-LBGA	64-LFBGA	64-LQFP
Program Memory Size	128KB (128K x 8)	512KB (512K x 8)	64KB (64K x 8)	64KB (64K x 8)
Series	Kinetis K20	Kinetis K20	Kinetis K20	Kinetis K20
Supplier Device Package	32-QFN-EP (5x5)	144-LBGA (13x13)	64-MAPBGA (5x5)	64-LQFP (10x10)
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V
Base Product Number	MK20DX128	MK20DN512	MK20DN64	MK20DN64
Number of I/O	20	100	40	40
Program Memory Type	FLASH	FLASH	FLASH	FLASH
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
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)

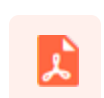
MK20DX128VFM5 Datasheet PDF

Download MK20DX128VFM5 pdf datasheets and NXP USA Inc. documentation for MK20DX128VFM5 - NXP USA Inc..

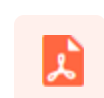
Datasheets



K2x USB MCU Family Fact Sheet.pdf



K20_FM5 Datasheet.pdf



K20_FM5 Ref Manual.pdf

Environmental Information

Customers Also Interested in

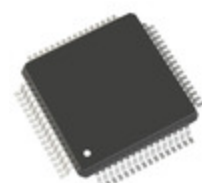
Recommended Products



MK20DN512ZVMD10
Freescale Semiconductor
IC MCU 32B 512KB FLASH
144MAPBGA



MK20DN64VMP5
NXP USA Inc.
IC MCU 32BIT 64KB FLASH
64MAPBGA



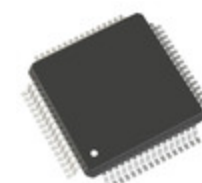
MK20DN64VLH5
NXP USA Inc.
IC MCU 32BIT 64KB FLASH 64LQFP



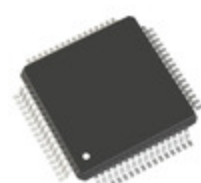
MK20DX128ZVLQ10
NXP USA Inc.
IC MCU 32BIT 128KB FLASH
144LQFP



MK20DX128VMP5
NXP USA Inc.
IC MCU 32BIT 128KB FLSH
64MAPBGA



MK20DX128VLH5
NXP USA Inc.
IC MCU 32BIT 128KB FLASH 64LQFP



MK20DX128VLL7
NXP USA Inc.
IC MCU 32BIT 128KB FLASH
100LQFP



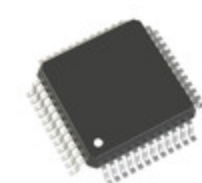
MK20DX128VLH7
NXP USA Inc.
IC MCU 32BIT 128KB FLASH 64LQFP



MK20DN512ZVMC10
NXP USA Inc.
IC MCU 32B 512KB FLASH
121MAPBGA



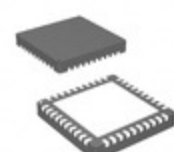
MK20DX128VLL7
NXP USA Inc.
IC MCU 32BIT 128KB FLASH 80FQFP



MK20DX128VLF5
NXP USA Inc.
IC MCU 32BIT 128KB FLASH 48LQFP



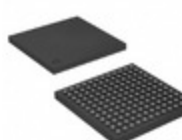
MK20DN512ZVLQ10R
NXP USA Inc.
IC MCU 32BIT 512KB FLASH
144LQFP



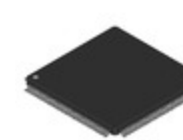
MK20DN64VFM5
NXP USA Inc.
IC MCU 32BIT 64KB FLASH 32QFN



MK20DN5ZVMB10
Freescale / NXP Semiconductors



MK20DN512ZVMD10
NXP USA Inc.
IC MCU 32B 512KB FLASH
144MAPBGA



MK20DX128ZVLQ10
Freescale Semiconductor
IC MCU 32BIT 128KB FLASH
144LQFP



MK20DN512ZVMB10
NXP USA Inc.
IC MCU 32BIT 512KB FLSH
81MAPBGA

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

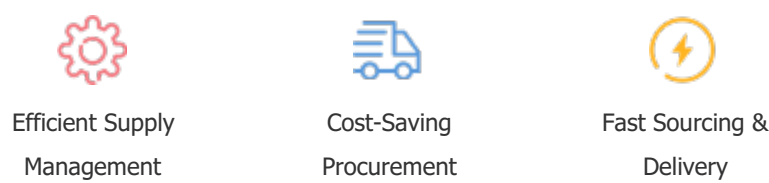
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.
Contact us if you have any questions.

Payment Support

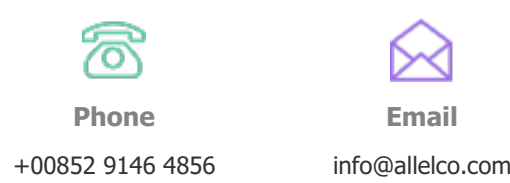
The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card,
PayPal.



Your Faithful Supply Chain Partner -



Contact us if you have any questions.



Certifications & Memberships



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