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See specifications for product details.



MK20DX64VFM5

Manufacturer Part Number	MK20DX64VFM5
Manufacturer	NXP Semiconductors
Allelco Part Number	32D-MK20DX64VFM5
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 64KB 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

MK20DX64VFM5 - NXP USA Inc..New Original in Stock. Download Linear Technology MK20DX64VFM5 datasheet/specifications on AllelcoElec.com.
Request a quote for MK20DX64VFM5, please send us email: info@allelco.com

Specifications

MK20DX64VFM5 Tech Specifications
MK20DX64VFM5 - 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-HVQFN (5x5)	Number of I/O	20
Speed	50MHz	Mounting Type	Surface Mount, Wettable Flank
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	64KB (64K 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	MK20DX64
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MK20DX64VFM5

Product Attribute				
Part Number	MK20DX64VFM5	MK20FN1M0VLQ12	MK20DX64VLH5	MK20DX32VLH5
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Package / Case	32-VFQFN Exposed Pad	144-LQFP	64-LQFP	64-LQFP
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package	Tray	Tray	Tray	Tray
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
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)
Series	Kinetis K20	Kinetis K20	Kinetis K20	Kinetis K20
Base Product Number	MK20DX64	MK20FN1M0	MK20DX64	MK20DX32
Oscillator Type	Internal	Internal	Internal	Internal
Speed	50MHz	120MHz	50MHz	50MHz
Mounting Type	Surface Mount, Wettable Flank	Surface Mount	Surface Mount	Surface Mount
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V
EEPROM Size	2K x 8	-	2K x 8	2K x 8
Program Memory Size	64KB (64K x 8)	1MB (1M x 8)	64KB (64K x 8)	32KB (32K x 8)
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Data Converters	A/D 6x16b	A/D 58x16b; D/A 2x12b	A/D 13x16b	A/D 13x16b
Supplier Device Package	32-HVQFN (5x5)	144-LQFP (20x20)	64-LQFP (10x10)	64-LQFP (10x10)
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Number of I/O	20	100	40	40
RAM Size	16K x 8	128K x 8	16K x 8	8K x 8
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

MK20DX64VFM5 Datasheet PDF

Download MK20DX64VFM5 pdf datasheets and NXP USA Inc. documentation for MK20DX64VFM5 - NXP USA Inc..

Datasheets

- [K2x USB MCU Family Fact Sheet.pdf](#)
- [K20_FM5 Datasheet.pdf](#)
- [K20_FM5 Ref Manual.pdf](#)

PCN Packaging

All Dev Label Update 15/Dec/2020.pdf

12NC 27/Nov/2016.pdf

Environmental Information

NXP USA Inc REACH.pdf

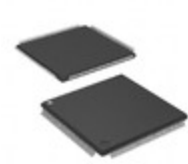
NXP USA Inc RoHS Cert.pdf

PCN Assembly/Origin

Mult Dev Site Chgs 18/Dec/2020.pdf

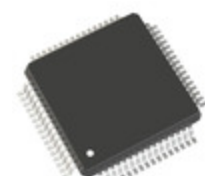
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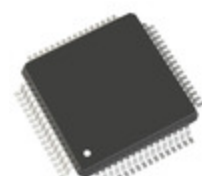
MK20FN1M0VLQ12

NXP USA Inc.
IC MCU 32BIT 1MB FLASH 144LQFP



MK20DX64VLH5

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



MK20DX32VLH5

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



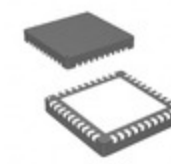
MK20DX64VMC7

Freescale Semiconductor
IC MCU 32BIT 64KB FLSH
121MAPBGA



MK20DX32VMP5

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



MK20DX32VFM5

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



MK20DX32VLF5

Freescale Semiconductor
IC MCU 32BIT 32KB FLASH 48LQFP



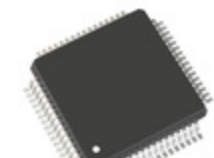
MK20DX32VLF5

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



MK20DX256ZVLK10

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



MK20DX64VLH7

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



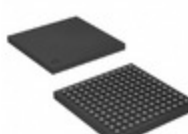
MK20FX512VLQ12

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



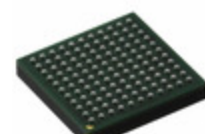
MK20DX64VMP5

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



MK20DX256VMD10

NXP USA Inc.
IC MCU 32B 256KB FLASH
144MAPBGA



MK20DX64VMC7

NXP USA Inc.
IC MCU 32BIT 64KB FLSH
121MAPBGA



MK20DX256ZVLL10

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



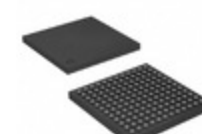
MK20DX256ZVLQ10

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



MK20DX64VLH5

Freescale Semiconductor
IC MCU 32BIT 64KB FLASH 64LQFP



MK20FN1M0VMD12

NXP USA Inc.
IC MCU 32BIT 1MB FLASH
144MAPBGA

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

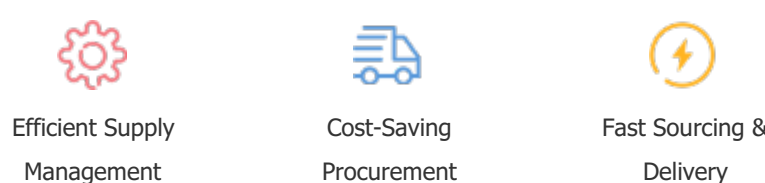
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

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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