

Image may be representation.  
See specifications for product details.



## MK64FN1M0VDC12

Manufacturer Part Number	<b>MK64FN1M0VDC12</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-MK64FN1M0VDC12
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 32BIT 1MB FLASH 121XFBGA
Package	121-XFBGA
Data sheet	<b>K64F Sub-Family.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

MK64FN1M0VDC12 - NXP USA Inc..New Original in Stock. Download Linear Technology MK64FN1M0VDC12 datasheet/specifications on AllelcoElec.com.  
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### Specifications

MK64FN1M0VDC12 Tech Specifications  
MK64FN1M0VDC12 - 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	121-XFBGA (8x8)	Number of I/O	83
Speed	120MHz	Mounting Type	Surface Mount
Series	Kinetis K60	EEPROM Size	-
RAM Size	256K x 8	Data Converters	A/D 37x16b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	1MB (1M x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	DMA, I <sup>2</sup> S, LVD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, SD, SPI, UART/USART, USB, USB OTG
Package / Case	121-XFBGA	Base Product Number	MK64FN1M0
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MK64FN1M0VDC12

Product Attribute				
Part Number	MK64FN1M0VDC12	MK64FX512VMD12	MK61FN1M0VMJ15	MK64FX512VLL12
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Package	Tray	Tray	Tray	Tray
Series	Kinetis K60	Kinetis K60	Kinetis K60	Kinetis K60
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Data Converters	A/D 37x16b; D/A 2x12b	A/D 41x16b; D/A 2x12b	A/D 77x16b; D/A 2x12b	A/D 32x16b; D/A 1x12b
EEPROM Size	-	4K x 8	-	4K x 8
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Peripherals	DMA, I <sup>2</sup> S, LVD, POR, PWM, WDT	DMA, I <sup>2</sup> S, LVD, POR, PWM, WDT	DMA, I <sup>2</sup> S, LVD, POR, PWM, WDT	DMA, I <sup>2</sup> S, LVD, POR, PWM, WDT
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
Supplier Device Package	121-XFBGA (8x8)	144-MAPBGA (13x13)	256-MAPPBGA (17x17)	100-LQFP (14x14)
RAM Size	256K x 8	192K x 8	128K x 8	192K x 8
Base Product Number	MK64FN1M0	MK64FX512	MK61FN1M0	MK64FX512
Speed	120MHz	120MHz	150MHz	120MHz
Number of I/O	83	100	128	66
Package / Case	121-XFBGA	144-LBGA	256-LBGA	100-LQFP
Connectivity	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, SD, SPI, UART/USART, USB, USB OTG	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, SD, SPI, UART/USART, USB, USB OTG	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, SD, SPI, UART/USART, USB, USB OTG	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, SD, SPI, UART/USART, USB, USB OTG
Oscillator Type	Internal	Internal	Internal	Internal
Program Memory Size	1MB (1M x 8)	512KB (512K x 8)	1MB (1M x 8)	512KB (512K x 8)

### MK64FN1M0VDC12 Datasheet PDF

Download MK64FN1M0VDC12 pdf datasheets and NXP USA Inc. documentation for MK64FN1M0VDC12 - NXP USA Inc..

#### Datasheets


[K64F 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


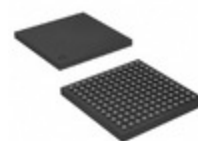
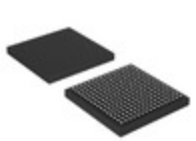

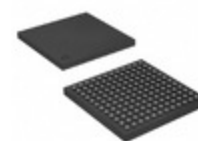
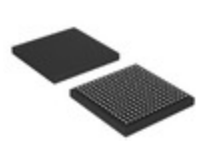

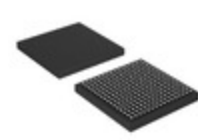


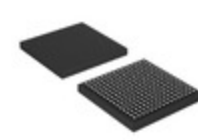




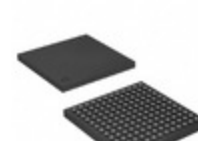
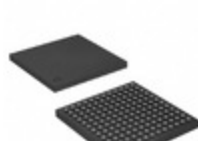
 2.73KHz.pdf

## PCN Design/Specification

 MK24F/MK63F/MK64F 25/Aug/2017.pdf

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 <b>MK64FN1MOV12</b> Freescale / NXP Semiconductors	 <b>MK61FX512VMJ12</b> NXP USA Inc. IC MCU 32B 512KB FL5H 256MAPBGA	 <b>MK64FX512VLQ12</b> NXP USA Inc. IC MCU 32BIT 512KB FLASH 144LQFP	 <b>MK64FN1M0VLL12</b> NXP USA Inc. IC MCU 32BIT 1MB FLASH 100LQFP	 <b>MK61FX512VMJ15</b> NXP USA Inc. IC MCU 32B 512KB FL5H 256MAPBGA	 <b>MK6264US-120</b> STMicroelectronics
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## 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,  
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### Your Faithful Supply Chain Partner -

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Contact us if you have any questions.

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