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See specifications for product details.



## MKL05Z32VFK4

Manufacturer Part Number	<b>MKL05Z32VFK4</b>
Manufacturer	<b>Freescale Semiconductor, Inc. (NXP Semiconductors)</b>
Allelco Part Number	32D-MKL05Z32VFK4
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	<b>IC MCU 32BIT 32KB FLASH 24QFN</b>
Package	<b>24-VFQFN Exposed Pad</b>
Data sheet	MKL05Z32VFK4.pdf

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MKL05Z32VFK4 - Freescale Semiconductor. New Original in Stock. Download Linear Technology MKL05Z32VFK4 datasheet/specifications on AllelcoElec.com.  
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## Specifications

MKL05Z32VFK4 Tech Specifications

MKL05Z32VFK4 - Freescale Semiconductor technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Freescale Semiconductor, Inc. (NXP Semiconductors)	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	Operating Temperature	-40°C ~ 105°C (TA)
Supplier Device Package	24-QFN (4x4)	Number of I/O	22
Speed	48MHz	Mounting Type	Surface Mount
Series	Kinetis KL0	EEPROM Size	-
RAM Size	4K x 8	Data Converters	A/D 12x12b; D/A 1x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	32KB (32K x 8)	Core Processor	ARM® Cortex®-M0+
Peripherals	Brown-out Detect/Reset, DMA, LVD, POR, PWM, WDT	Connectivity	I²C, SPI, UART/USART
Package / Case	24-VFQFN Exposed Pad	Base Product Number	MKL05Z32
Package	Bulk		

## Parts with Similar Specifications

The three parts on the right have similar specifications to Freescale Semiconductor MKL05Z32VFK4

Product Attribute				
Part Number	MKL05Z32VFK4	<b>MKL05Z16VLF4</b>	<b>MKL05Z16VFM4</b>	<b>MKL05Z32VLF4</b>
Manufacturer	Freescale Semiconductor	NXP USA Inc.	NXP USA Inc.	Freescale Semiconductor
Speed	48MHz	48MHz	48MHz	48MHz
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)
Series	Kinetis KL0	Kinetis KL0	Kinetis KL0	Kinetis KL0
Connectivity	I²C, SPI, UART/USART	I²C, SPI, UART/USART	I²C, SPI, UART/USART	I²C, SPI, UART/USART
Base Product Number	MKL05Z32	MKL05Z16	MKL05Z16	MKL05Z32
Package / Case	24-VFQFN Exposed Pad	48-LQFP	32-VFQFN Exposed Pad	48-LQFP
Program Memory Size	32KB (32K x 8)	16KB (16K x 8)	16KB (16K x 8)	32KB (32K x 8)
Data Converters	A/D 12x12b; D/A 1x12b	A/D 14x12b; D/A 1x12b	A/D 14x12b; D/A 1x12b	A/D 14x12b; D/A 1x12b
Mounting Type	Surface Mount	Surface Mount	Surface Mount, Wettable Flank	Surface Mount
RAM Size	4K x 8	2K x 8	2K x 8	4K x 8
Core Processor	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Supplier Device Package	24-QFN (4x4)	48-LQFP (7x7)	32-HVQFN (5x5)	48-LQFP (7x7)
EEPROM Size	-	-	-	-
Oscillator Type	Internal	Internal	Internal	Internal
Peripherals	Brown-out Detect/Reset, DMA, LVD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, LVD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, LVD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, LVD, POR, PWM, WDT
Number of I/O	22	41	28	41
Package	Bulk	Tray	Tray	Bulk

## Customers Also Interested in

### Recommended Products



**MKL05Z16VLF4**

NXP USA Inc.  
IC MCU 32BIT 16KB FLASH 48LQFP



**MKL05Z16VFM4**

NXP USA Inc.  
IC MCU 32BIT 16KB FLASH 32QFN



**MKL05Z32VLF4**

Freescale Semiconductor  
IC MCU 32BIT 32KB FLASH 48LQFP



**MKL04Z8VFM4**

NXP USA Inc.  
IC MCU 32BIT 8KB FLASH 32QFN



**MKL05Z32VLC4**

Freescale Semiconductor  
IC MCU 32BIT 32KB FLASH 32LQFP



**MKL05Z16VFM4**

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IC MCU 32BIT 16KB FLASH 32QFN



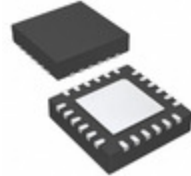
### MKL04Z8VLC4

NXP USA Inc.  
IC MCU 32BIT 8KB FLASH 32LQFP



### MKL04Z8VLC4

Freescale Semiconductor  
IC MCU 32BIT 8KB FLASH 32LQFP



### MKL05Z8VFK4

NXP USA Inc.  
IC MCU 32BIT 8KB FLASH 24QFN



### MKL04Z32VLF4

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



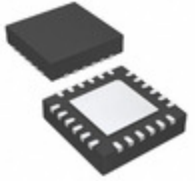
### MKL05Z32VLC

Freescale / NXP Semiconductors



### MKL04Z8VTG

Freescale / NXP Semiconductors



### MKL05Z32VFK4

NXP USA Inc.  
IC MCU 32BIT 32KB FLASH 24QFN



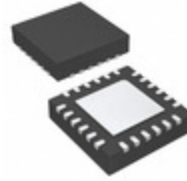
### MKL05Z8VFM4

NXP USA Inc.  
IC MCU 32BIT 8KB FLASH 32QFN



### MKL05Z32VLF4

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



### MKL04Z8VFK4

NXP USA Inc.  
IC MCU 32BIT 8KB FLASH 24QFN



### MKL05Z32VLC4

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



### MKL05Z32VFM4

NXP USA Inc.  
IC MCU 32BIT 32KB 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  
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## Certifications & Memberships



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