

Image may be representation.  
See specifications for product details.



## FS32K116LFT0MLFR

Manufacturer Part Number	<b>FS32K116LFT0MLFR</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-FS32K116LFT0MLFR
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 128KB FLASH 48LQFP
Package	48-LQFP
Data sheet	<b>S32K1xx.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

FS32K116LFT0MLFR - NXP USA Inc..New Original in Stock. Download Linear Technology FS32K116LFT0MLFR datasheet/specifications on AllelcoElec.com.  
Request a quote for FS32K116LFT0MLFR, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

FS32K116LFT0MLFR Tech Specifications  
FS32K116LFT0MLFR - 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)	2.7V ~ 5.5V	Operating Temperature	-40°C ~ 125°C (TA)
Supplier Device Package	48-LQFP (7x7)	Number of I/O	43
Speed	48MHz	Mounting Type	Surface Mount
Series	S32K	EEPROM Size	2K x 8
RAM Size	17K x 8	Data Converters	A/D 13x12b SAR; D/A 1x8b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	128KB (128K x 8)	Core Processor	ARM® Cortex®-M0+
Peripherals	DMA, PWM, WDT	Connectivity	CANbus, FlexIO, I <sup>2</sup> C, LINbus, SPI, UART/USART
Package / Case	48-LQFP	Base Product Number	FS32K116
Package	Tape & Reel (TR)		

### Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. FS32K116LFT0MLFR

Product Attribute				
Part Number	FS32K116LFT0MLFR	<b>FS32K116LIT0VLFT</b>	<b>FS32K116LFT0MFMFMT</b>	<b>FS32K116BRT0MFMFR</b>
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Series	S32K	S32K	S32K	S32K
Speed	48MHz	48MHz	48MHz	48MHz
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V
Supplier Device Package	48-LQFP (7x7)	48-LQFP (7x7)	32-HVQFN (5x5)	32-HVQFN (5x5)
Package	Tape & Reel (TR)	Tray	Tray	Tape & Reel (TR)
Oscillator Type	Internal	Internal	Internal	Internal
Number of I/O	43	43	28	28
EEPROM Size	2K x 8	2K x 8	2K x 8	2K x 8
Connectivity	CANbus, FlexIO, I <sup>2</sup> C, LINbus, SPI, UART/USART	CANbus, FlexIO, I <sup>2</sup> C, LINbus, SPI, UART/USART	CANbus, FlexIO, I <sup>2</sup> C, LINbus, SPI, UART/USART	CANbus, FlexIO, I <sup>2</sup> C, LINbus, SPI, UART/USART
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
RAM Size	17K x 8	17K x 8	17K x 8	17K x 8
Data Converters	A/D 13x12b SAR; D/A 1x8b	A/D 13x12b SAR; D/A 1x8b	A/D 13x12b SAR; D/A 1x8b	A/D 13x12b SAR; D/A 1x8b
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Size	128KB (128K x 8)	128KB (128K x 8)	128KB (128K x 8)	128KB (128K x 8)
Package / Case	48-LQFP	48-LQFP	32-VFQFN Exposed Pad	32-VFQFN Exposed Pad
Base Product Number	FS32K116	FS32K116	FS32K116	FS32K116
Operating Temperature	-40°C ~ 125°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 125°C (TA)
Peripherals	DMA, PWM, WDT	DMA, PWM, WDT	DMA, PWM, WDT	DMA, PWM, WDT
Core Processor	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+

### FS32K116LFT0MLFR Datasheet PDF

Download FS32K116LFT0MLFR pdf datasheets and NXP USA Inc. documentation for FS32K116LFT0MLFR - NXP USA Inc..

#### Datasheets

[S32K1xx.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



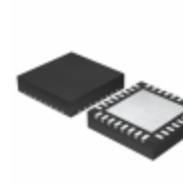

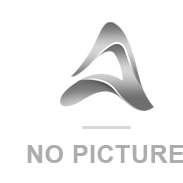





 Mult Dev A/T Site 28/Apr/2021.pdf

## PCN Design/Specification

 S32K1xx 18/Nov/2021.pdf

## Customers Also Interested in

### Recommended Products

					
<b>FS32K116LAMFM</b> FREESCA	<b>FS32K116LIT0VLFT</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 48LQFP	<b>FS32K116LFT0MFMT</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 32HVQFN	<b>FS32K118BRC</b> FREESCA	<b>FS32K116BRT0MFMR</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 32HVQFN	<b>FS32K116LAT0MLFT</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 48LQFP
					
<b>FS32K116LAT0MFM</b> Freescale / NXP Semiconductors	<b>FS32K116LIT0VLFR</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 48LQFP	<b>FS32K116LIT0VFMT</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 32HVQFN	<b>FS32K116LAM</b> FREESCA	<b>FS32K118LAT0MLF</b> Freescale / NXP Semiconductors	<b>FS32K116LFT0MLFT</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 48LQFP
					
<b>FS32K116LFV</b> FREESCA	<b>FS32K116LAT0MLFR</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 48LQFP	<b>FS32K116LAT0MFMR</b> NXP USA Inc. S32K116 ARM CORTEX-M0+, 48 MHZ,	<b>FS32K116LAT0VLFT</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 48LQFP	<b>FS32K116LFT0VLFT</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 48LQFP	<b>FS32K116LAT0MFMT</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 32HVQFN

## 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 Alleco 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@alleco.com

## Certifications & Memberships



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