



# MKS22FN256VLL12

Manufacturer Part Number	<b>MKS22FN256VLL12</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-MKS22FN256VLL12
ECAD Model	 <a href="#">Request Free CAD Models</a>
Parts Description	IC MCU 32BIT 256KB FLASH 100LQFP
Package	100-LQFP
Data sheet	<a href="#">MKS22FNzzzVxx12, MKS20FNzzzVxx12.pdf</a> <a href="#">MKS22FNzzzVxx12, MKS20FNzzzVxx12.pdf</a>
RoHS Status	 <b>ROHS3 Compliant</b>


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MKS22FN256VLL12 - NXP USA Inc..New Original in Stock. Download Linear Technology MKS22FN256VLL12 datasheet/specifications on AllelcoElec.com.  
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## Specifications


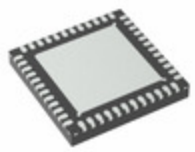

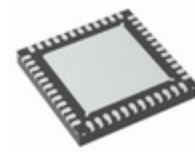
MKS22FN256VLL12 Tech Specifications

MKS22FN256VLL12 - 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	100-LQFP (14x14)	Number of I/O	66
Speed	120MHz	Mounting Type	Surface Mount
Series	Kinetis KS22	EEPROM Size	-
RAM Size	64K x 8	Data Converters	A/D 1x16b; D/A 1x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	256KB (256K x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LVD, POR, PWM, WDT	Connectivity	CANbus, I <sup>2</sup> C, SPI, UART/USART, USB OTG
Package / Case	100-LQFP	Base Product Number	MKS22FN256
Package	Tray		

## Parts with Similar Specifications


The three parts on the right have similar specifications to NXP USA Inc. MKS22FN256VLL12

Product Attribute				
Part Number	MKS22FN256VLL12	<a href="#">MKS22FN128VFT12</a>	<a href="#">MKS22FN256VLH12</a>	<a href="#">MKS20FN256VFT12</a>
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Data Converters	A/D 1x16b; D/A 1x12b	A/D 1x16b; D/A 1x12b	A/D 1x16b; D/A 1x12b	A/D 1x16b; D/A 1x12b
Oscillator Type	Internal	Internal	Internal	Internal
Series	Kinetis KS22	Kinetis KS22	Kinetis KS22	Kinetis KS22
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
Number of I/O	66	35	40	35
RAM Size	64K x 8	64K x 8	64K x 8	64K x 8
Package	Tray	Tray	Tray	Tray
Supplier Device Package	100-LQFP (14x14)	48-QFN (7x7)	64-LQFP (10x10)	48-QFN (7x7)
Speed	120MHz	120MHz	120MHz	120MHz
Program Memory Size	256KB (256K x 8)	128KB (128K x 8)	256KB (256K x 8)	256KB (256K x 8)
Peripherals	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LVD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LVD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LVD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LVD, POR, PWM, WDT
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Package / Case	100-LQFP	48-VFQFN Exposed Pad	64-LQFP	48-VFQFN Exposed Pad
Connectivity	CANbus, I <sup>2</sup> C, SPI, UART/USART, USB OTG	CANbus, I <sup>2</sup> C, SPI, UART/USART, USB OTG	CANbus, I <sup>2</sup> C, SPI, UART/USART, USB OTG	CANbus, I <sup>2</sup> C, SPI, UART/USART, USB OTG
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Base Product Number	MKS22FN256	MKS22FN128	MKS22FN256	MKS20FN256
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)
EEPROM Size	-	-	-	-

## MKS22FN256VLL12 Datasheet PDF

Download MKS22FN256VLL12 pdf datasheets and NXP USA Inc. documentation for MKS22FN256VLL12 - NXP USA Inc..

### Datasheets


[MKS22FNzzzVxx12, MKS20FNzzzVxx12.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

Assembly Site 15/Dec/2022.pdf

### PCN Design/Specification

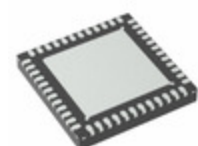
MKS20/22FN256/128 03/Sept/2022.pdf

### HTML Datasheet

MKS22FNzzzVxx12, MKS20FNzzzVxx12.pdf

## Customers Also Interested in

### Recommended Products



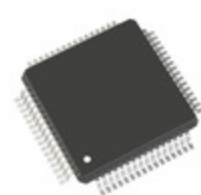
**MKS22FN128VFT12**  
NXP USA Inc.  
IC MCU 32BIT 128KB FLASH 48QFN



**MKS2C041001F00J**  
WIMA



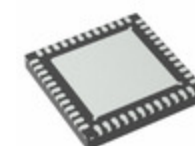
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WIMA  
MKS 2 1.0 UF 63 VDC 5X10X7.2 PCM



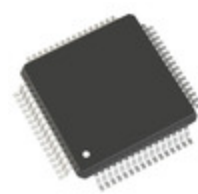
**MKS22FN256VLH12**  
NXP USA Inc.  
IC MCU 32BIT 256KB FLASH 64LQFP



**MKS2 .47UF/10%/63VDC**  
WIMA



**MKS20FN256VFT12**  
NXP USA Inc.  
IC MCU 32BIT 256KB FLASH 48QFN



**MKS22FN128VLH12**  
NXP USA Inc.  
IC MCU 32BIT 128KB FLASH 64LQFP



**MKS2C041001F00JI00**  
WIMA  
MKS 2 1.0 UF 63 VDC 5X10X7.2 PCM



**MKS20.047UF400V510**  
WIMA



**MKS2D031001A00JSSD**  
WIMA  
MKS 2 0.1 UF 100 VDC 2.5X6.5X7.2



**MKS2C024701A00KSSD**  
WIMA  
CAP FILM 0.047UF 10% 63VDC RAD



**MKS2C031001A00JC00**  
WIMA



**MKS2C021001A00JSSD**  
WIMA  
MKS 2 0.01 UF 63 VDC 2.5X6.5X7.2



**MKS22FN256VFT12**  
NXP USA Inc.  
IC MCU 32BIT 256KB FLASH 48QFN



**MKS2C024701A00JSSD**  
WIMA  
MKS 2 0.047 UF 63 VDC 2.5X6.5X7.



**MKS20FN128VFT12**  
NXP USA Inc.  
IC MCU 32BIT 128KB FLASH 48QFN



**MKS22FN128VLL12**  
NXP USA Inc.  
IC MCU 32BIT 128KB FLASH 100LQFP



**MKS20FN256VLH12**  
NXP USA Inc.  
IC MCU 32BIT 256KB FLASH 64LQFP

## 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.



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