



Image may be representation.
See specifications for product details.



MK12DN512VLK5R

Manufacturer Part Number	MK12DN512VLK5R
Manufacturer	NXP Semiconductors
Allelco Part Number	32D-MK12DN512VLK5R
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 512KB FLASH 80FQFP
Package	80-LQFP
Data sheet	K10 Family Fact Sheet.pdf K12_LK5 Datasheet.pdf K12_LK5 Ref Manual.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

MK12DN512VLK5R - NXP USA Inc..New Original in Stock. Download Linear Technology MK12DN512VLK5R datasheet/specifications on AllelcoElec.com.
Request a quote for MK12DN512VLK5R, please send us email: info@allelco.com

Specifications

MK12DN512VLK5R Tech Specifications

MK12DN512VLK5R - 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	80-FQFP (12x12)	Number of I/O	60
Speed	50MHz	Mounting Type	Surface Mount
Series	Kinetis K10	EEPROM Size	-
RAM Size	64K x 8	Data Converters	A/D 24x16b; D/A 1x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	512KB (512K x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	DMA, I²S, LVD, POR, PWM, WDT	Connectivity	I²C, IrDA, SPI, UART/USART
Package / Case	80-LQFP	Base Product Number	MK12DN512
Package	Tape & Reel (TR)		

Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MK12DN512VLK5R

Product Attribute				
Part Number	MK12DN512VLK5R	MK12DX128VLK5	MK11DX128VLK5	MK12DX256VLH5
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
EEPROM Size	-	4K x 8	4K x 8	4K x 8
Program Memory Size	512KB (512K x 8)	128KB (128K x 8)	128KB (128K x 8)	256KB (256K x 8)
Connectivity	I²C, IrDA, SPI, UART/USART	I²C, IrDA, SPI, UART/USART	I²C, IrDA, SPI, UART/USART	I²C, IrDA, SPI, UART/USART
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Package / Case	80-LQFP	80-LQFP	80-LQFP	64-LQFP
Data Converters	A/D 24x16b; D/A 1x12b	A/D 24x16b; D/A 1x12b	A/D 24x16b	A/D 22x16b; D/A 1x12b
RAM Size	64K x 8	32K x 8	32K x 8	32K x 8
Supplier Device Package	80-FQFP (12x12)	80-FQFP (12x12)	80-FQFP (12x12)	64-LQFP (10x10)
Series	Kinetis K10	Kinetis K10	Kinetis K10	Kinetis K10
Base Product Number	MK12DN512	MK12DX128	MK11DX128	MK12DX256
Package	Tape & Reel (TR)	Tray	Tray	Tray
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)
Number of I/O	60	60	60	44
Oscillator Type	Internal	Internal	Internal	Internal
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V
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
Speed	50MHz	50MHz	50MHz	50MHz

MK12DN512VLK5R Datasheet PDF

Download MK12DN512VLK5R pdf datasheets and NXP USA Inc. documentation for MK12DN512VLK5R - NXP USA Inc..

Datasheets

[K12_LK5 Datasheet.pdf](#)

[K12_LK5 Ref Manual.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 Site Chgs 18/Dec/2020.pdf








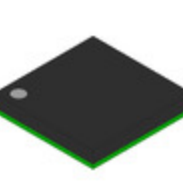


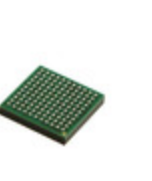




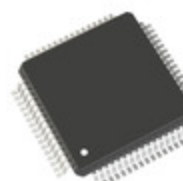
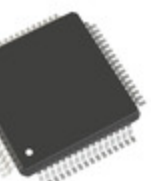

Assembly Site 05/Oct/2022.pdf

HTML Datasheet

K10 Family Fact Sheet.pdf

Customers Also Interested in

Recommended Products

 MK1210 SHINDENGER	 MK12DX128VLK5 NXP USA Inc. IC MCU 32BIT 128KB FLASH 80FQFP	 MK11DX128VLK5 NXP USA Inc. IC MCU 32BIT 128KB FLASH 80FQFP	 MK11DX512VMC5 Freescale / NXP Semiconductors	 MK1410S. ICSI	 MK1409STR MK
 MK12DX256VLH5 NXP USA Inc. IC MCU 32BIT 256KB FLASH 64LQFP	 MK11DN512VMC5 Freescale Semiconductor IC MCU 32B 512KB FLASH 121MAPBGA	 MK12DN512VLK5 NXP USA Inc. IC MCU 32BIT 512KB FLASH 80FQFP	 MK11DN512VLK5 NXP USA Inc. IC MCU 32BIT 512KB FLASH 80FQFP	 MK11DX128VMC5 NXP USA Inc. IC MCU 32B 128KB FLASH 121MAPBGA	 MK1410S ICSI
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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, PayPal.



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Contact us if you have any questions.

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