



Image may be representation.
See specifications for product details.



MK53DN512CLQ10

Manufacturer Part Number	MK53DN512CLQ10
Manufacturer	NXP Semiconductors
Allelco Part Number	32D-MK53DN512CLQ10
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 512KB FLASH 144LQFP
Package	144-LQFP
Data sheet	K50 Family Brief.pdf K50 Family Fact Sheet.pdf K53 Sub-Family.pdf K53_LQ/MD10 Ref Manual.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

MK53DN512CLQ10 - NXP USA Inc..New Original in Stock. Download Linear Technology MK53DN512CLQ10 datasheet/specifications on AllelcoElec.com.
Request a quote for MK53DN512CLQ10, please send us email: info@allelco.com

Specifications

MK53DN512CLQ10 Tech Specifications
MK53DN512CLQ10 - 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 ~ 85°C (TA)
Supplier Device Package	144-LQFP (20x20)	Number of I/O	94
Speed	100MHz	Mounting Type	Surface Mount
Series	Kinetis K50	EEPROM Size	-
RAM Size	128K x 8	Data Converters	A/D 41x16b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	512KB (512K x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	DMA, I ² S, LCD, LVD, POR, PWM, WDT	Connectivity	EBI/EMI, Ethernet, I ² C, IrDA, SD, SPI, UART/USART, USB, USB OTG
Package / Case	144-LQFP	Base Product Number	MK53DN512
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MK53DN512CLQ10

Product Attribute				
Part Number	MK53DN512CLQ10	MK53DX256CMD10	MK53DX256CLQ10	MK53DN512ZCLQ10
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Speed	100MHz	100MHz	100MHz	100MHz
Series	Kinetis K50	Kinetis K50	Kinetis K50	Kinetis K50
Package / Case	144-LQFP	144-LBGA	144-LQFP	144-LQFP
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V
EEPROM Size	-	4K x 8	4K x 8	-
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Peripherals	DMA, I ² S, LCD, LVD, POR, PWM, WDT	DMA, I ² S, LCD, LVD, POR, PWM, WDT	DMA, I ² S, LCD, LVD, POR, PWM, WDT	DMA, I ² S, LCD, LVD, POR, PWM, WDT
Connectivity	EBI/EMI, Ethernet, I ² C, IrDA, SD, SPI, UART/USART, USB, USB OTG	EBI/EMI, Ethernet, I ² C, IrDA, SD, SPI, UART/USART, USB, USB OTG	EBI/EMI, Ethernet, I ² C, IrDA, SD, SPI, UART/USART, USB, USB OTG	EBI/EMI, Ethernet, I ² C, IrDA, SD, SPI, UART/USART, USB, USB OTG
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Oscillator Type	Internal	Internal	Internal	Internal
Number of I/O	94	94	94	94
Package	Tray	Tray	Tray	Tray
Supplier Device Package	144-LQFP (20x20)	144-MAPBGA (13x13)	144-LQFP (20x20)	144-LQFP (20x20)
Data Converters	A/D 41x16b; D/A 2x12b	A/D 41x16b; D/A 2x12b	A/D 41x16b; D/A 2x12b	A/D 41x16b; D/A 2x12b
Program Memory Size	512KB (512K x 8)	256KB (256K x 8)	256KB (256K x 8)	512KB (512K x 8)
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Base Product Number	MK53DN512	MK53DX256	MK53DX256	MK53DN512
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
RAM Size	128K x 8	128K x 8	128K x 8	128K x 8
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4

MK53DN512CLQ10 Datasheet PDF

Download MK53DN512CLQ10 pdf datasheets and NXP USA Inc. documentation for MK53DN512CLQ10 - NXP USA Inc..

Datasheets

[K50 Family Brief.pdf](#)

[K50 Family Fact Sheet.pdf](#)

[K53 Sub-Family.pdf](#)

 K53_LQ/MD10 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

PCN Design/Specification

 Mult Dev 25/May/2020.pdf

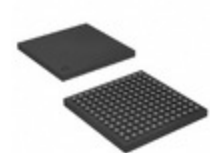
 Trace Marking Removal 20/Jun/2019.pdf

Errata

 5N22D Mask Set Errata.pdf

Customers Also Interested in

Recommended Products



MK53DX256CMD10

NXP USA Inc.
IC MCU 32B 256KB FLASH
144MAPBGA



NO PICTURE

MK5811AL

MK



MK53DX256CLQ10

NXP USA Inc.
IC MCU 32BIT 256KB FLASH
144LQFP



MK5811S

Renesas Electronics America Inc
IC CLOCK GENERATOR 8SOIC



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MK53732B

STMicroelectronics



NO PICTURE

MK5811SL

ICSI



NO PICTURE

MK5640EFA01-BK-C

NA



MK5811SLF

Renesas Electronics America Inc
IC CLOCK GENERATOR 8SOIC



MK5811CMLF

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IC CLOCK GENERATOR 8SOIC



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MK53DN512ZCLQ10

NXP USA Inc.
IC MCU 32BIT 512KB FLASH
144LQFP

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.

Certifications & Memberships



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BANK



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