



Image may be representation.
See specifications for product details.



MC9S12XEQ512MAG

Manufacturer Part Number	MC9S12XEQ512MAG
Manufacturer	NXP Semiconductors
Allelco Part Number	32D-MC9S12XEQ512MAG
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 16BIT 512KB FLASH 144LQFP
Package	144-LQFP
Data sheet	MC912XEP100 Datasheet.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

MC9S12XEQ512MAG - NXP USA Inc..New Original in Stock. Download Linear Technology MC9S12XEQ512MAG datasheet/specifications on AllelcoElec.com.
Request a quote for MC9S12XEQ512MAG, please send us email: info@allelco.com

Specifications

MC9S12XEQ512MAG Tech Specifications
MC9S12XEQ512MAG - NXP USA Inc. technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	NXP Semiconductors	Oscillator Type	External
Voltage - Supply (Vcc/Vdd)	1.72V ~ 5.5V	Operating Temperature	-40°C ~ 125°C (TA)
Supplier Device Package	144-LQFP (20x20)	Number of I/O	119
Speed	50MHz	Mounting Type	Surface Mount
Series	HCS12X	EEPROM Size	4K x 8
RAM Size	32K x 8	Data Converters	A/D 24x12b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	512KB (512K x 8)	Core Processor	HCS12X
Peripherals	LVD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, I ² C, IrDA, SCI, SPI
Package / Case	144-LQFP	Base Product Number	MC9S12
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MC9S12XEQ512MAG

Product Attribute				
Part Number	MC9S12XEQ512MAG	MC9S12XEQ512CAG	MC9S12XEQ512CAL	MC9S12XEQ512CAA
Manufacturer	NXP USA Inc.	Freescalo Semiconductor	NXP USA Inc.	NXP USA Inc.
Program Memory Size	512KB (512K x 8)	512KB (512K x 8)	512KB (512K x 8)	512KB (512K x 8)
Peripherals	LVD, POR, PWM, WDT	LVD, POR, PWM, WDT	LVD, POR, PWM, WDT	LVD, POR, PWM, WDT
Operating Temperature	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Base Product Number	MC9S12	MC9S12	MC9S12	MC9S12
Core Processor	HCS12X	HCS12X	HCS12X	HCS12X
Data Converters	A/D 24x12b	A/D 24x12b	A/D 16x12b	A/D 12x12b
Connectivity	CANbus, EBI/EMI, I ² C, IrDA, SCI, SPI	CANbus, EBI/EMI, I ² C, IrDA, SCI, SPI	CANbus, EBI/EMI, I ² C, IrDA, SCI, SPI	CANbus, EBI/EMI, I ² C, IrDA, SCI, SPI
Series	HCS12X	HCS12X	HCS12X	HCS12X
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package	Tray	Bulk	Tray	Tray
Speed	50MHz	50MHz	50MHz	50MHz
Supplier Device Package	144-LQFP (20x20)	144-LQFP (20x20)	112-LQFP (20x20)	80-QFP (14x14)
Oscillator Type	External	External	External	External
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Number of I/O	119	119	91	59
EEPROM Size	4K x 8	4K x 8	4K x 8	4K x 8
Voltage - Supply (Vcc/Vdd)	1.72V ~ 5.5V	1.72V ~ 5.5V	1.72V ~ 5.5V	1.72V ~ 5.5V
Package / Case	144-LQFP	144-LQFP	112-LQFP	80-QFP
RAM Size	32K x 8	32K x 8	32K x 8	32K x 8
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount

MC9S12XEQ512MAG Datasheet PDF

Download MC9S12XEQ512MAG pdf datasheets and NXP USA Inc. documentation for MC9S12XEQ512MAG - NXP USA Inc..

Datasheets


[MC912XEP100 Datasheet.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

 Retraction of 15318B 22/Oct/2013.pdf

Customers Also Interested in

Recommended Products

					
MC9S12XET256J2MAGR Freescale / NXP Semiconductors	MC9S12XET256CAL 2M53J Freescale / NXP Semiconductors	MC9S12XEQ512CAG Freescale Semiconductor IC MCU 16BIT 512KB FLASH 144LQFP	MC9S12XEQ512CAL NXP USA Inc. IC MCU 16BIT 512KB FLASH 112LQFP	MC9S12XEQ512CAA NXP USA Inc. IC MCU 16BIT 512KB FLASH 80QFP	MC9S12XEQ512MAL NXP USA Inc. IC MCU 16BIT 512KB FLASH 112LQFP
					
MC9S12XEQ512MAG Freescale Semiconductor IC MCU 16BIT 512KB FLASH 144LQFP	MC9S12XET256CAG NXP USA Inc. IC MCU 16BIT 256KB FLASH 144LQFP	MC9S12XEQ384VAG Freescale Semiconductor IC MCU 16BIT 384KB FLASH 144LQFP	MC9S12XET256CAG Freescale Semiconductor IC MCU 16BIT 256KB FLASH 144LQFP	MC9S12XET256J1VAG Freescale / NXP Semiconductors	MC9S12XET256CAL FREECAL
					
MC9S12XEQ512CAG NXP USA Inc. IC MCU 16BIT 512KB FLASH 144LQFP	MC9S12XET256MAA NXP USA Inc. IC MCU 16BIT 256KB FLASH 80QFP	MC9S12XEQ512MAG 3M25J Freescale / NXP Semiconductors	MC9S12XEQ512CAA Freescale Semiconductor IC MCU 16BIT 512KB FLASH 80QFP	MC9S12XEQ512MAA NXP USA Inc. IC MCU 16BIT 512KB FLASH 80QFP	MC9S12XEQ512J3VAAR Freescale / NXP Semiconductors

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

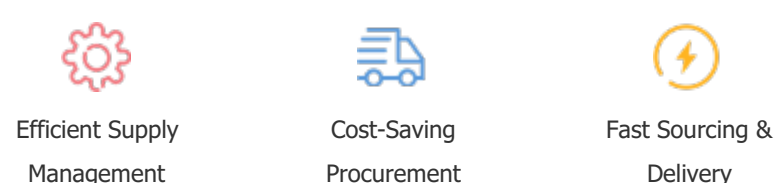
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.
Contact us if you have any questions.

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 -



Contact us if you have any questions.



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Certifications & Memberships



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