

Image may be representation.  
See specifications for product details.



## MC9S12XET256MAG

Manufacturer Part Number	<b>MC9S12XET256MAG</b>
Manufacturer	<b>Freescale Semiconductor, Inc. (NXP Semiconductors)</b>
Allelco Part Number	32D-MC9S12XET256MAG
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 16BIT 256KB FLASH 144LQFP
Package	144-LQFP
Data sheet	MC9S12XET256MAG.pdf

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MC9S12XET256MAG - Freescale Semiconductor. New Original in Stock. Download Linear Technology MC9S12XET256MAG datasheet/specifications on AllelcoElec.com. Request a quote for MC9S12XET256MAG, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

MC9S12XET256MAG Tech Specifications  
MC9S12XET256MAG - Freescale Semiconductor technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Freescale Semiconductor, Inc. (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	16K x 8	Data Converters	A/D 24x12b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	256KB (256K x 8)	Core Processor	HCS12X
Peripherals	LVD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, SCI, SPI
Package / Case	144-LQFP	Base Product Number	MC9S12
Package	Bulk		

### Parts with Similar Specifications

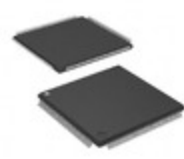
The three parts on the right have similar specifications to Freescale Semiconductor MC9S12XET256MAG

Product Attribute				
Part Number	MC9S12XET256MAG	MC9S12XET256CAG	MC9S12XET256MAA	MC9S12XEQ512MAL
Manufacturer	Freescale Semiconductor	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Number of I/O	119	119	59	91
Data Converters	A/D 24x12b	A/D 24x12b	A/D 12x12b	A/D 16x12b
Operating Temperature	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 125°C (TA)
Speed	50MHz	50MHz	50MHz	50MHz
Core Processor	HCS12X	HCS12X	HCS12X	HCS12X
Peripherals	LVD, POR, PWM, WDT	LVD, POR, PWM, WDT	LVD, POR, PWM, WDT	LVD, POR, PWM, WDT
Voltage - Supply (Vcc/Vdd)	1.72V ~ 5.5V	1.72V ~ 5.5V	1.72V ~ 5.5V	1.72V ~ 5.5V
Connectivity	CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, SCI, SPI	CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, SCI, SPI	CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, SCI, SPI	CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, SCI, SPI
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Oscillator Type	External	External	External	External
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package / Case	144-LQFP	144-LQFP	80-QFP	112-LQFP
Base Product Number	MC9S12	MC9S12	MC9S12	MC9S12
EEPROM Size	4K x 8	4K x 8	4K x 8	4K x 8
RAM Size	16K x 8	16K x 8	16K x 8	32K x 8
Package	Bulk	Tray	Tray	Tray
Program Memory Size	256KB (256K x 8)	256KB (256K x 8)	256KB (256K x 8)	512KB (512K x 8)
Supplier Device Package	144-LQFP (20x20)	144-LQFP (20x20)	80-QFP (14x14)	112-LQFP (20x20)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Series	HCS12X	HCS12X	HCS12X	HCS12X

### Customers Also Interested in

#### Recommended Products

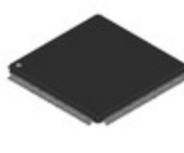
<b>MC9S12XET256VAG</b>	<b>MC9S12XET256VAL</b>	<b>MC9S12XET256MAL.</b>	<b>MC9S12XET256CAL</b>	<b>MC9S12XET256MAL 2M53J</b>	<b>MC9S12XET256CAL 2M53J</b>
Freescale / NXP Semiconductors	Freescale / NXP Semiconductors	Freescale / NXP Semiconductors	FREECAL	Freescale / NXP Semiconductors	Freescale / NXP Semiconductors

**MC9S12XET512VAL**

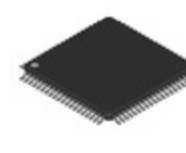
Freescale / NXP Semiconductors

**MC9S12XET256CAG**NXP USA Inc.  
IC MCU 16BIT 256KB FLASH  
144LQFP**MC9S12XET256MAA**NXP USA Inc.  
IC MCU 16BIT 256KB FLASH 80QFP**MC9S12XEQ512MAL**NXP USA Inc.  
IC MCU 16BIT 512KB FLASH  
112LQFP**MC9S12XET256MAL**NXP USA Inc.  
IC MCU 16BIT 256KB FLASH  
112LQFP**MC9S12XET256VAG  
2M53J**

Freescale / NXP Semiconductors

**MC9S12XET256MAG**NXP USA Inc.  
IC MCU 16BIT 256KB FLASH  
144LQFP**MC9S12XET256CAG**Freescale Semiconductor  
IC MCU 16BIT 256KB FLASH  
144LQFP**MC9S12XET512MAG**

Freescale / NXP Semiconductors

**MC9S12XET256MAA**Freescale Semiconductor  
IC MCU 16BIT 256KB FLASH 80QFP**MC9S12XET256J1VAG**

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**MC9S12XET256J2MAGR**

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.



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Contact us if you have any questions.

- Phone  
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- Email  
info@allelco.com

## Certifications & Memberships



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