



Image may be representation.  
See specifications for product details.



## MC9S12GC16CFUE

Manufacturer Part Number	<b>MC9S12GC16CFUE</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-MC9S12GC16CFUE
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 16BIT 16KB FLASH 80QFP
Package	80-QFP
Data sheet	<b>MC9S12C,GC Family.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

MC9S12GC16CFUE - NXP USA Inc..New Original in Stock. Download Linear Technology MC9S12GC16CFUE datasheet/specifications on AllelcoElec.com.  
Request a quote for MC9S12GC16CFUE, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

MC9S12GC16CFUE Tech Specifications

MC9S12GC16CFUE - 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)	2.35V ~ 5.5V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	80-QFP (14x14)	Number of I/O	60
Speed	25MHz	Mounting Type	Surface Mount
Series	HCS12	EEPROM Size	-
RAM Size	1K x 8	Data Converters	A/D 8x10b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	16KB (16K x 8)	Core Processor	HCS12
Peripherals	POR, PWM, WDT	Connectivity	EBI/EMI, SCI, SPI
Package / Case	80-QFP	Base Product Number	MC9S12
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MC9S12GC16CFUE

Product Attribute				
Part Number	MC9S12GC16CFUE	<b>MC9S12GC16CFUE</b>	<b>MC9S12GC16CFAE</b>	<b>MC9S12GC32CFUE</b>
Manufacturer	NXP USA Inc.	Freescale Semiconductor	NXP USA Inc.	NXP USA Inc.
Oscillator Type	Internal	Internal	Internal	Internal
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Base Product Number	MC9S12	MC9S12	MC9S12	MC9S12
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Data Converters	A/D 8x10b	A/D 8x10b	A/D 8x10b	A/D 8x10b
Program Memory Size	16KB (16K x 8)	16KB (16K x 8)	16KB (16K x 8)	32KB (32K x 8)
Package / Case	80-QFP	80-QFP	48-LQFP	80-QFP
RAM Size	1K x 8	1K x 8	1K x 8	2K x 8
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
EEPROM Size	-	-	-	-
Core Processor	HCS12	HCS12	HCS12	HCS12
Voltage - Supply (Vcc/Vdd)	2.35V ~ 5.5V	2.35V ~ 5.5V	2.35V ~ 5.5V	2.35V ~ 5.5V
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Speed	25MHz	25MHz	25MHz	25MHz
Peripherals	POR, PWM, WDT	POR, PWM, WDT	POR, PWM, WDT	POR, PWM, WDT
Number of I/O	60	60	31	60
Supplier Device Package	80-QFP (14x14)	80-QFP (14x14)	48-LQFP (7x7)	80-QFP (14x14)
Series	HCS12	HCS12	HCS12	HCS12
Package	Tray	Bulk	Tray	Tray
Connectivity	EBI/EMI, SCI, SPI	EBI/EMI, SCI, SPI	EBI/EMI, SCI, SPI	EBI/EMI, SCI, SPI

### MC9S12GC16CFUE Datasheet PDF

Download MC9S12GC16CFUE pdf datasheets and NXP USA Inc. documentation for MC9S12GC16CFUE - NXP USA Inc..

#### Datasheets

[MC9S12C,GC Family.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

## Customers Also Interested in

### Recommended Products



**MC9S12G128MLL**

Freescale / NXP Semiconductors

**MC9S12FDG128MFUE**

Micrel / Microchip Technology

**MC9S12GC16CFUE**

Freescale Semiconductor  
IC MCU 16BIT 16KB FLASH 80QFP

**MC9S12GC16CFAE**

NXP USA Inc.  
IC MCU 16BIT 16KB FLASH 48LQFP

**MC9S12GC32CFUE**

NXP USA Inc.  
IC MCU 16BIT 32KB FLASH 80QFP

**MC9S12GC16CPBE**

Freescale Semiconductor  
IC MCU 16BIT 16KB FLASH 52TQFP



**MC9S12G128AMLL**

Freescale / NXP Semiconductors

**MC9S12E64CFUER**

NXP USA Inc.  
IC MCU 16BIT 64KB FLASH 80QFP

**MC9S12GC32CPBF**

Freescale / NXP Semiconductors

**MC9S12E64CPVE**

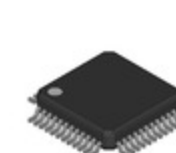
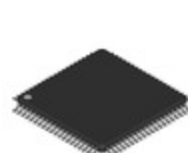
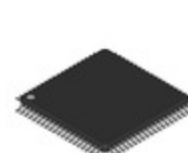
NXP USA Inc.  
IC MCU 16BIT 64KB FLASH 112LQFP

**MC9S12E64CPVE**

Freescale Semiconductor  
IC MCU 16BIT 64KB FLASH 112LQFP

**MC9S12GC64CFUE**

NXP USA Inc.  
IC MCU 16BIT 64KB FLASH 80QFP



**MC9S12GC32MFAE**

NXP USA Inc.  
IC MCU 16BIT 32KB FLASH 48LQFP

**MC9S12GC64CFUE**

Freescale Semiconductor  
IC MCU 16BIT 64KB FLASH 80QFP

**MC9S12E64CFUER**

Freescale Semiconductor  
IC MCU 16BIT 64KB FLASH 80QFP

**MC9S12GC64MFUE**

NXP USA Inc.  
IC MCU 16BIT 64KB FLASH 80QFP

**MC9S12GC16CPBE**

NXP USA Inc.  
IC MCU 16BIT 16KB FLASH 52TQFP

**MC9S12GC32MFAE**

Freescale Semiconductor  
IC MCU 16BIT 32KB FLASH 48LQFP

## 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.



Phone

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Email

info@allelco.com

## Certifications & Memberships



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