



Image may be representation.  
See specifications for product details.



## MC9S12H256VFVE

Manufacturer Part Number	<b>MC9S12H256VFVE</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-MC9S12H256VFVE
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 16BIT 256KB FLASH 144LQFP
Package	144-LQFP
Data sheet	<b>MC9S12H256,128.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

MC9S12H256VFVE - NXP USA Inc..New Original in Stock. Download Linear Technology MC9S12H256VFVE datasheet/specifications on AllelcoElec.com.  
Request a quote for MC9S12H256VFVE, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

MC9S12H256VFVE Tech Specifications

MC9S12H256VFVE - 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 ~ 5.25V	Operating Temperature	-40°C ~ 105°C (TA)
Supplier Device Package	144-LQFP (20x20)	Number of I/O	99
Speed	16MHz	Mounting Type	Surface Mount
Series	HCS12	EEPROM Size	4K x 8
RAM Size	12K x 8	Data Converters	A/D 16x10b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	256KB (256K x 8)	Core Processor	HCS12
Peripherals	LCD, POR, PWM, WDT	Connectivity	CANbus, I <sup>2</sup> C, 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. MC9S12H256VFVE

Product Attribute				
Part Number	MC9S12H256VFVE	MC9S12H256VFVE	MC9S12HZ256CAL	MC9S12H128VFVE
Manufacturer	NXP USA Inc.	Freescale Semiconductor	NXP USA Inc.	NXP USA Inc.
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 105°C (TA)
Data Converters	A/D 16x10b	A/D 16x10b	A/D 16x10b	A/D 8x10b
Voltage - Supply (Vcc/Vdd)	2.35V ~ 5.25V	2.35V ~ 5.25V	2.35V ~ 5.5V	2.35V ~ 5.25V
Oscillator Type	Internal	Internal	Internal	Internal
Package / Case	144-LQFP	144-LQFP	112-LQFP	144-LQFP
Core Processor	HCS12	HCS12	HCS12	HCS12
Program Memory Size	256KB (256K x 8)	256KB (256K x 8)	256KB (256K x 8)	128KB (128K x 8)
Peripherals	LCD, POR, PWM, WDT	LCD, POR, PWM, WDT	LCD, Motor control PWM, POR, PWM, WDT	LCD, POR, PWM, WDT
Base Product Number	MC9S12	MC9S12	MC9S12	MC9S12
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Type	FLASH	FLASH	FLASH	FLASH
EEPROM Size	4K x 8	4K x 8	2K x 8	4K x 8
Number of I/O	99	99	85	99
Speed	16MHz	16MHz	25MHz	16MHz
Package	Tray	Bulk	Tray	Tray
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Connectivity	CANbus, I <sup>2</sup> C, SCI, SPI	CANbus, I <sup>2</sup> C, SCI, SPI	CANbus, EBI/EMI, I <sup>2</sup> C, SCI, SPI	CANbus, I <sup>2</sup> C, SCI, SPI
Supplier Device Package	144-LQFP (20x20)	144-LQFP (20x20)	112-LQFP (20x20)	144-LQFP (20x20)
RAM Size	12K x 8	12K x 8	12K x 8	6K x 8
Series	HCS12	HCS12	HCS12	HCS12

### MC9S12H256VFVE Datasheet PDF

Download MC9S12H256VFVE pdf datasheets and NXP USA Inc. documentation for MC9S12H256VFVE - NXP USA Inc..

#### Datasheets

[MC9S12H256,128.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 Design/Specification

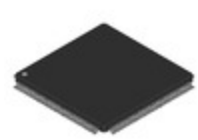
 Copper Wirebond Material 09/Jun/2014.pdf

## PCN Obsolescence/ EOL

 Mult Dev EOL 19/Jul/2019.pdf

## Customers Also Interested in

### Recommended Products



#### MC9S12H256VFVE

Freescale Semiconductor  
IC MCU 16BIT 256KB FLASH  
144LQFP



#### MC9S12HZ256CAL

NXP USA Inc.  
IC MCU 16BIT 256KB FLASH  
112LQFP



#### MC9S12H128VFVE

NXP USA Inc.  
IC MCU 16BIT 128KB FLASH  
144LQFP



#### MC9S12HZ256VAL

NXP USA Inc.  
IC MCU 16BIT 256KB FLASH  
112LQFP



#### MC9S12GN32F0CLFR

Freescale / NXP Semiconductors



#### MC9S12HZ256CAL

Freescale Semiconductor  
IC MCU 16BIT 256KB FLASH  
112LQFP



NO PICTURE

#### MC9S12H128VFV

MOTOROLA



#### MC9S12HZ128VAL

NXP USA Inc.  
IC MCU 16BIT 128KB FLASH  
112LQFP



#### MC9S12H256VPV

Motorola  
IC MCU 16BIT 256KB FLASH  
112LQFP



#### MC9S12GN32F0CLF

Freescale / NXP Semiconductors



NO PICTURE

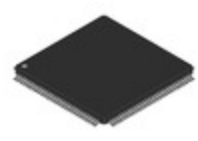
#### MC9S12GN32CLF

FYEESCALE



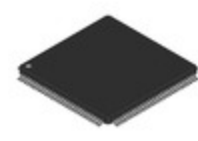
#### MC9S12H128VPV

Motorola  
16-BIT, FLASH, 16MHZ



#### MC9S12HZ256VAL

Freescale Semiconductor  
IC MCU 16BIT 256KB FLASH  
112LQFP



#### MC9S12HZ128VAL

Freescale Semiconductor  
IC MCU 16BIT 128KB FLASH  
112LQFP



#### MC9S12HN64VAA

Freescale / NXP Semiconductors



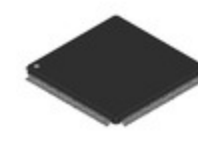
#### MC9s12h256VfV

Freescale / NXP Semiconductors



#### MC9S12HZ128VAL 3L16Y

Freescale / NXP Semiconductors



#### MC9S12H128VFVE

Freescale Semiconductor  
IC MCU 16BIT 128KB 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 Alleco 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

+00852 9146 4856



Email

info@alleco.com

## Certifications & Memberships



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