

Image may be representation.
See specifications for product details.



MC9S12XHZ256CAG

Manufacturer Part Number	MC9S12XHZ256CAG
Manufacturer	Freescale Semiconductor, Inc. (NXP Semiconductors)
Allelco Part Number	32D-MC9S12XHZ256CAG
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 16BIT 256KB FLASH 144LQFP
Package	144-LQFP
Data sheet	MC9S12XHZ256CAG.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

MC9S12XHZ256CAG - Freescale Semiconductor. New Original in Stock. Download Linear Technology MC9S12XHZ256CAG datasheet/specifications on AllelcoElec.com. Request a quote for MC9S12XHZ256CAG, please send us email: info@allelco.com

Specifications

MC9S12XHZ256CAG Tech Specifications
MC9S12XHZ256CAG - 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)	2.35V ~ 5.5V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	144-LQFP (20x20)	Number of I/O	117
Speed	50MHz	Mounting Type	Surface Mount
Series	HCS12X	EEPROM Size	4K x 8
RAM Size	16K x 8	Data Converters	A/D 16x10b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	256KB (256K x 8)	Core Processor	HCS12X
Peripherals	LCD, Motor control PWM, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, I ² C, LINbus, SCI, SPI
Package / Case	144-LQFP	Base Product Number	MC9S12
Package	Bulk		

Parts with Similar Specifications

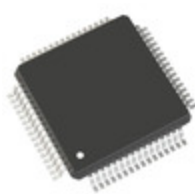
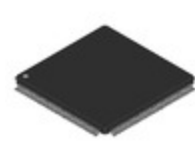
The three parts on the right have similar specifications to Freescale Semiconductor MC9S12XHZ256CAG

Product Attribute				
Part Number	MC9S12XHZ256CAG	MC9S12XHZ256CAG	MC9S12XHZ256VAG	MC9S12XF512MLM
Manufacturer	Freescale Semiconductor	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Series	HCS12X	HCS12X	HCS12X	HCS12X
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 125°C (TA)
Core Processor	HCS12X	HCS12X	HCS12X	HCS12X
Package / Case	144-LQFP	144-LQFP	144-LQFP	112-LQFP
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Data Converters	A/D 16x10b	A/D 16x8/10b	A/D 16x8/10b	A/D 16x12b
Peripherals	LCD, Motor control PWM, POR, PWM, WDT	LCD, Motor control PWM, POR, PWM, WDT	LCD, Motor control PWM, POR, PWM, WDT	LVD, POR, PWM, WDT
EEPROM Size	4K x 8	4K x 8	4K x 8	4K x 8
Supplier Device Package	144-LQFP (20x20)	144-LQFP (20x20)	144-LQFP (20x20)	112-LQFP (20x20)
Speed	50MHz	80MHz	80MHz	50MHz
Package	Bulk	Tray	Tray	Tray
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Oscillator Type	External	External	External	External
Program Memory Type	FLASH	FLASH	FLASH	FLASH
RAM Size	16K x 8	16K x 8	16K x 8	32K x 8
Voltage - Supply (Vcc/Vdd)	2.35V ~ 5.5V	2.35V ~ 5.5V	2.35V ~ 5.5V	1.72V ~ 5.5V
Number of I/O	117	117	117	88
Connectivity	CANbus, EBI/EMI, I ² C, LINbus, SCI, SPI	CANbus, EBI/EMI, I ² C, LINbus, SCI, SPI	CANbus, EBI/EMI, I ² C, LINbus, SCI, SPI	CANbus, SCI, SPI
Base Product Number	MC9S12	MC9S12	MC9S12	MC9S12
Program Memory Size	256KB (256K x 8)	256KB (256K x 8)	256KB (256K x 8)	512KB (512K x 8)

Customers Also Interested in

Recommended Products

MC9S12XF384MLM Freescale / NXP Semiconductors	MC9S12XHZ512VAG 1M80F NA	MC9S12XHZ256CAG NXP USA Inc. IC MCU 16BIT 256KB FLASH 144LQFP	MC9S12XHZ256VAG NXP USA Inc. IC MCU 16BIT 256KB FLASH 144LQFP	MC9S12XF512MLM NXP USA Inc. IC MCU 16BIT 512KB FLASH 112LQFP	MC9S12XET256MAL. Freescale / NXP Semiconductors



MC9S12XHZ512VAL

Freescale / NXP Semiconductors

MC9S12XHZ256VAG

Freescale Semiconductor
IC MCU 16BIT 256KB FLASH
144LQFP

MC9S12XF512MLH

NXP USA Inc.
IC MCU 16BIT 512KB FLASH 64LQFP

MC9S12XS128CAA

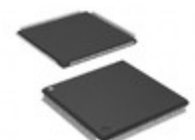
Freescale / NXP Semiconductors

MC9S12XET256VAG

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MC9S12XET256VAG 2M53J

Freescale / NXP Semiconductors



MC9S12XHZ512VAG

Freescale / NXP Semiconductors

MC9S12XET256VAL

Freescale / NXP Semiconductors

MC9S12XHZ512CAG

NXP USA Inc.
IC MCU 16BIT 512KB FLASH
144LQFP

MC9S12XET256MAL 2M53J

Freescale / NXP Semiconductors

MC9S12XET512MAG

Freescale / NXP Semiconductors

MC9S12XET512VAL

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:
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- Fast Sourcing & Delivery

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Contact us

Address: Flat/Rm C 13/F Harvard Commercial Building 105-111 Thomson Road, Wan Chai, Hong Kong
 Phone: +00852 9146 4856
 Fax: +00852 3010 8510
 Email: info@Allelco.com