

Image may be representation.
See specifications for product details.



MC9S12XD256VAL

Manufacturer Part Number	MC9S12XD256VAL
Manufacturer	Freescale Semiconductor, Inc. (NXP Semiconductors)
Allelco Part Number	32D-MC9S12XD256VAL
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 16BIT 256KB FLASH 112LQFP
Package	112-LQFP
Data sheet	MC9S12XD256VAL.pdf

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MC9S12XD256VAL - Freescale Semiconductor. New Original in Stock. Download Linear Technology MC9S12XD256VAL datasheet/specifications on AllelcoElec.com.
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Specifications

MC9S12XD256VAL Tech Specifications

MC9S12XD256VAL - 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 ~ 105°C (TA)
Supplier Device Package	112-LQFP (20x20)	Number of I/O	91
Speed	80MHz	Mounting Type	Surface Mount
Series	HCS12X	EEPROM Size	4K x 8
RAM Size	14K 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	LVD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, I ² C, IrDA, LINbus, SCI, SPI
Package / Case	112-LQFP	Base Product Number	MC9S12
Package	Bulk		

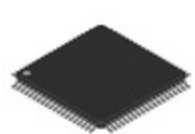
Parts with Similar Specifications

The three parts on the right have similar specifications to Freescale Semiconductor MC9S12XD256VAL

Product Attribute				
Part Number	MC9S12XD256VAL	MC9S12XD64MAA	MC9S12XD256VAL	MC9S12XD64MAA
Manufacturer	Freescale Semiconductor	Freescale Semiconductor	NXP USA Inc.	NXP USA Inc.
Supplier Device Package	112-LQFP (20x20)	80-QFP (14x14)	112-LQFP (20x20)	80-QFP (14x14)
Connectivity	CANbus, EBI/EMI, I ² C, IrDA, LINbus, SCI, SPI	CANbus, EBI/EMI, I ² C, IrDA, LINbus, SCI, SPI	CANbus, EBI/EMI, I ² C, IrDA, LINbus, SCI, SPI	CANbus, EBI/EMI, I ² C, IrDA, LINbus, SCI, SPI
Core Processor	HCS12X	HCS12X	HCS12X	HCS12X
Package	Bulk	Bulk	Tray	Tray
Peripherals	LVD, POR, PWM, WDT	LVD, POR, PWM, WDT	LVD, POR, PWM, WDT	LVD, POR, PWM, WDT
EEPROM Size	4K x 8	1K x 8	4K x 8	1K x 8
Voltage - Supply (Vcc/Vdd)	2.35V ~ 5.5V	2.35V ~ 5.5V	2.35V ~ 5.5V	2.35V ~ 5.5V
Series	HCS12X	HCS12X	HCS12X	HCS12X
Speed	80MHz	80MHz	80MHz	80MHz
Number of I/O	91	59	91	59
Base Product Number	MC9S12	MC9S12	MC9S12	MC9S12
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Package / Case	112-LQFP	80-QFP	112-LQFP	80-QFP
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Data Converters	A/D 16x10b	A/D 8x10b	A/D 16x10b	A/D 8x10b
Program Memory Size	256KB (256K x 8)	64KB (64K x 8)	256KB (256K x 8)	64KB (64K x 8)
RAM Size	14K x 8	4K x 8	14K x 8	4K x 8
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 125°C (TA)
Oscillator Type	External	External	External	External
Program Memory Type	FLASH	FLASH	FLASH	FLASH

Customers Also Interested in

Recommended Products



MC9S12XD64MAA

Freescale Semiconductor
IC MCU 16BIT 64KB FLASH 80QFP



MC9S12XD256VAL

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



MC9S12XD64MAA

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



MC9S12XD256VAL

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



MC9S12XD256MAL

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



MC9S12XD256MAG

NXP USA Inc.
IC MCU 16BIT 256KB FLASH 144LQFP

**MC9S12XD256MAL**

Freescale Semiconductor
IC MCU 16BIT 256KB FLASH
112LQFP

**MC9S12XD256CAA**

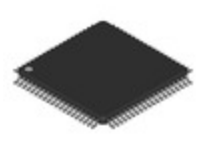
NXP USA Inc.
IC MCU 16BIT 256KB FLASH 80QFP

**MC9S12XD128MAL**

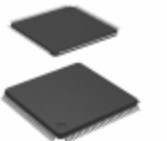
NXP USA Inc.
IC MCU 16BIT 128KB FLASH
112LQFP

**MC9S12XD64CAA**

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

**MC9S12XD256CAA**

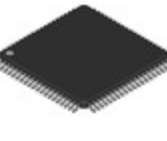
Freescale Semiconductor
IC MCU 16BIT 256KB FLASH 80QFP

**MC9S12XDG128MAL**

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

**MC9S12XD256MAG**

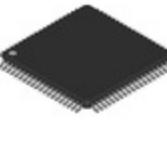
Freescale Semiconductor
IC MCU 16BIT 256KB FLASH
144LQFP

**MC9S12XDG128MAA**

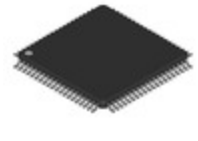
Freescale Semiconductor
IC MCU 16BIT 128KB FLASH 80QFP

**MC9S12XD256MAA**

NXP USA Inc.
IC MCU 16BIT 256KB FLASH 80QFP

**MC9S12XD256MAA**

Freescale Semiconductor
IC MCU 16BIT 256KB FLASH 80QFP

**MC9S12XD64CAA**

Freescale Semiconductor
IC MCU 16BIT 64KB FLASH 80QFP

**MC9S12XDG128CAA**

NXP USA Inc.
IC MCU 16BIT 128KB FLASH 80QFP

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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Certifications & Memberships



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Contact us

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