

Image may be representation.  
See specifications for product details.



## S9S12XS256J0CAA

Manufacturer Part Number	<b>S9S12XS256J0CAA</b>
Manufacturer	<b>Freescale Semiconductor, Inc. (NXP Semiconductors)</b>
Allelco Part Number	32D-S9S12XS256J0CAA
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	<b>IC MCU 16BIT 256KB FLASH 80QFP</b>
Package	<b>80-QFP</b>
Data sheet	S9S12XS256J0CAA.pdf

**Get a Quote**

S9S12XS256J0CAA - Freescale Semiconductor. New Original in Stock. Download Linear Technology S9S12XS256J0CAA datasheet/specifications on AllelcoElec.com.  
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### Specifications

S9S12XS256J0CAA Tech Specifications

S9S12XS256J0CAA - 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 ~ 85°C (TA)
Supplier Device Package	80-QFP (14x14)	Number of I/O	59
Speed	40MHz	Mounting Type	Surface Mount
Series	HCS12X	EEPROM Size	-
RAM Size	12K x 8	Data Converters	A/D 8x12b
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, SCI, SPI
Package / Case	80-QFP	Base Product Number	S9S12
Package	Bulk		

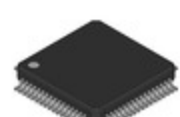
### Parts with Similar Specifications

The three parts on the right have similar specifications to Freescale Semiconductor S9S12XS256J0CAA

Product Attribute				
Part Number	S9S12XS256J0CAA	<b>S9S12XS128J1MAE</b>	<b>S9S12XS256J0CAA</b>	<b>S9S12XS128J1MAA</b>
Manufacturer	Freescale Semiconductor	Freescale Semiconductor	NXP USA Inc.	NXP USA Inc.
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Speed	40MHz	40MHz	40MHz	40MHz
Base Product Number	S9S12	S9S12	S9S12	S9S12
Data Converters	A/D 8x12b	A/D 8x12b	A/D 8x12b	A/D 8x12b
RAM Size	12K x 8	8K x 8	12K x 8	8K x 8
EEPROM Size	-	-	-	-
Peripherals	LVD, POR, PWM, WDT	LVD, POR, PWM, WDT	LVD, POR, PWM, WDT	LVD, POR, PWM, WDT
Oscillator Type	External	External	External	External
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Core Processor	HCS12X	HCS12X	HCS12X	HCS12X
Package / Case	80-QFP	64-LQFP	80-QFP	80-QFP
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Voltage - Supply (Vcc/Vdd)	1.72V ~ 5.5V	1.72V ~ 5.5V	1.72V ~ 5.5V	1.72V ~ 5.5V
Supplier Device Package	80-QFP (14x14)	64-LQFP (10x10)	80-QFP (14x14)	80-QFP (14x14)
Number of I/O	59	44	59	59
Package	Bulk	Bulk	Tray	Tray
Connectivity	CANbus, SCI, SPI	CANbus, SCI, SPI	CANbus, SCI, SPI	CANbus, SCI, SPI
Series	HCS12X	HCS12X	HCS12X	HCS12X
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)
Program Memory Size	256KB (256K x 8)	128KB (128K x 8)	256KB (256K x 8)	128KB (128K x 8)

### Customers Also Interested in

#### Recommended Products



**S9S12XS128J1MAE**  
Freescale Semiconductor  
IC MCU 16BIT 128KB FLASH 64LQFP



**S9S12XS256J0CAA**  
NXP USA Inc.  
IC MCU 16BIT 256KB FLASH 80QFP



**S9S12XS128J1MAA**  
NXP USA Inc.  
IC MCU 16BIT 128KB FLASH 80QFP



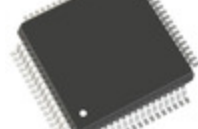
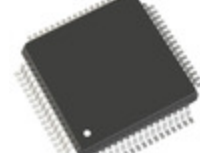
**S9S12XS128J1CAL**  
Freescale Semiconductor  
IC MCU 16BIT 128KB FLASH 112LQFP



**S9S12XS256J0CAAR**  
NXP USA Inc.  
IC MCU 16BIT 256KB FLASH 80QFP



**S9S12XS128J1CALR**  
NXP USA Inc.  
IC MCU 16BIT 128KB FLASH 112LQFP

**S9S12XS256J0MAA**NXP USA Inc.  
IC MCU 16BIT 256KB FLASH 80QFP**S9S12XS256J0VAE**NXP USA Inc.  
IC MCU 16BIT 256KB FLASH 64LQFP**S9S12XS128J1VAA**Analog Devices Inc.  
16-bit MCU, S12X core, 128KB Fla**S9S12XS256J0MAL**NXP USA Inc.  
IC MCU 16BIT 256KB FLASH 112LQFP**S9S12XS128J1MAE**NXP USA Inc.  
IC MCU 16BIT 128KB FLASH 64LQFP**S9S12XS256J0CAER**NXP USA Inc.  
IC MCU 16BIT 256KB FLASH 64LQFP**S9S12XS128J1MAL**NXP USA Inc.  
IC MCU 16BIT 128KB FLASH 112LQFP**S9S12XS256J0VAL**NXP USA Inc.  
IC MCU 16BIT 256KB FLASH 112LQFP**S9S12XS256J0VAA**NXP USA Inc.  
IC MCU 16BIT 256KB FLASH 80QFP**S9S12XS256J0CAL**NXP USA Inc.  
IC MCU 16BIT 256KB FLASH 112LQFP**S9S12XS128J1VAA**NXP USA Inc.  
IC MCU 16BIT 128KB FLASH 80QFP**S9S12XS256J0MAE**NXP USA Inc.  
IC MCU 16BIT 256KB FLASH 64LQFP

## 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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- 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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