

Image may be representation.  
See specifications for product details.



## MC9S08SH16CTGR

Manufacturer Part Number	<b>MC9S08SH16CTGR</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-MC9S08SH16CTGR
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 8BIT 16KB FLASH 16TSSOP
Package	16-TSSOP (0.173", 4.40mm Width)
Data sheet	<b>MC9S08SH16, 32.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

MC9S08SH16CTGR - NXP USA Inc..New Original in Stock. Download Linear Technology MC9S08SH16CTGR datasheet/specifications on AllelcoElec.com.  
Request a quote for MC9S08SH16CTGR, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

MC9S08SH16CTGR Tech Specifications  
MC9S08SH16CTGR - 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)	2.7V ~ 5.5V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	16-TSSOP	Number of I/O	13
Speed	40MHz	Mounting Type	Surface Mount
Series	S08	EEPROM Size	-
RAM Size	1K x 8	Data Converters	A/D 8x10b
Program Memory Type	FLASH	Core Size	8-Bit
Program Memory Size	16KB (16K x 8)	Core Processor	S08
Peripherals	LVD, POR, PWM, WDT	Connectivity	I <sup>2</sup> C, LINbus, SCI, SPI
Package / Case	16-TSSOP (0.173", 4.40mm Width)	Base Product Number	MC9S08
Package	Tape & Reel (TR)		

## Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MC9S08SH16CTGR

Product Attribute				
Part Number	MC9S08SH16CTGR	MC9S08SH16MTJR	MC9S08SH16CTG	MC9S08SH16MTL
Manufacturer	NXP USA Inc.	NXP USA Inc.	Freescale Semiconductor	Freescale Semiconductor
Connectivity	I <sup>2</sup> C, LINbus, SCI, SPI	I <sup>2</sup> C, LINbus, SCI, SPI	I <sup>2</sup> C, LINbus, SCI, SPI	I <sup>2</sup> C, LINbus, SCI, SPI
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)
Speed	40MHz	40MHz	40MHz	40MHz
Supplier Device Package	16-TSSOP	20-TSSOP	16-TSSOP	28-TSSOP
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Series	S08	S08	S08	S08
Package / Case	16-TSSOP (0.173", 4.40mm Width)	20-TSSOP (0.173", 4.40mm Width)	16-TSSOP (0.173", 4.40mm Width)	28-TSSOP (0.173", 4.40mm Width)
Data Converters	A/D 8x10b	A/D 12x10b	A/D 8x10b	A/D 16x10b
Core Size	8-Bit	8-Bit	8-Bit	8-Bit
Base Product Number	MC9S08	MC9S08	MC9S08	MC9S08
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V
Package	Tape & Reel (TR)	Tape & Reel (TR)	Bulk	Bulk
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Oscillator Type	Internal	Internal	Internal	Internal
Program Memory Size	16KB (16K x 8)	16KB (16K x 8)	16KB (16K x 8)	16KB (16K x 8)
Core Processor	S08	S08	S08	S08
EEPROM Size	-	-	-	-
RAM Size	1K x 8	1K x 8	1K x 8	1K x 8
Number of I/O	13	17	13	23
Peripherals	LVD, POR, PWM, WDT	LVD, POR, PWM, WDT	LVD, POR, PWM, WDT	LVD, POR, PWM, WDT

## MC9S08SH16CTGR Datasheet PDF

Download MC9S08SH16CTGR pdf datasheets and NXP USA Inc. documentation for MC9S08SH16CTGR - NXP USA Inc..

### Datasheets

[MC9S08SH16, 32.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 Assembly/Origin

 2.73KHz.pdf

## Customers Also Interested in

### Recommended Products

					
<b>MC9S08SH16MTJR</b> NXP USA Inc. IC MCU 8BIT 16KB FLASH 20TSSOP	<b>MC9S08SH16CTG</b> Freescale Semiconductor IC MCU 8BIT 16KB FLASH 16TSSOP	<b>MC9S08SH16MTL</b> Freescale Semiconductor IC MCU 8BIT 16KB FLASH 28TSSOP	<b>MC9S08SG16SWTG</b> Freescale / NXP Semiconductors	<b>MC9S08SH16CTLR</b> Freescale Semiconductor IC MCU 8BIT 16KB FLASH 28TSSOP	<b>MC9S08SG16SMTG</b> Freescale / NXP Semiconductors
					
<b>MC9S08SH16CTLR</b> NXP USA Inc. IC MCU 8BIT 16KB FLASH 28TSSOP	<b>MC9S08SG32SMTJ</b> Freescale / NXP Semiconductors	<b>MC9S08SH16MTJR</b> Freescale Semiconductor IC MCU 8BIT 16KB FLASH 20TSSOP	<b>MC9S08SG32SMTG</b> Freescale / NXP Semiconductors	<b>MC9S08SG16SVTJ</b> Freescale / NXP Semiconductors	<b>MC9S08SH16CTL</b> NXP USA Inc. IC MCU 8BIT 16KB FLASH 28TSSOP
					
<b>MC9S08SH16CTJR</b> NXP USA Inc. IC MCU 8BIT 16KB FLASH 20TSSOP	<b>MC9S08SH16CTG</b> NXP USA Inc. IC MCU 8BIT 16KB FLASH 16TSSOP	<b>MC9S08SH16CWL</b> NXP USA Inc. IC MCU 8BIT 16KB FLASH 28SOIC	<b>MC9S08SG32SCTJ</b> Freescale / NXP Semiconductors	<b>MC9S08SG16SCTJ</b> Freescale / NXP Semiconductors	<b>MC9S08SH16CTJ</b> NXP USA Inc. IC MCU 8BIT 16KB FLASH 20TSSOP

## 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

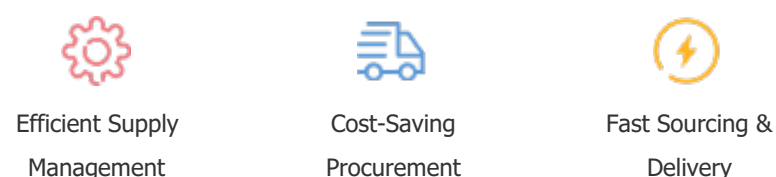
**Note:** The above table is for reference only. There may have some data bias for the uncontrollable factors.  
Contact us if you have any questions.

### 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 -



Contact us if you have any questions.



### Certifications & Memberships



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