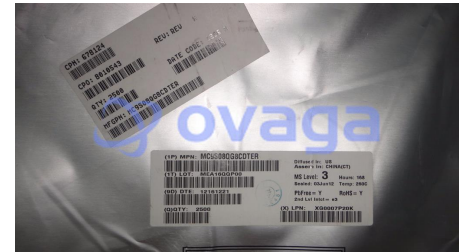


8 Bit MCU, QG Series, S08 Family S08QG Series Microcontrollers, 20 MHz, 8 KB, 512 Byte, 16 Pins

Manufacturers	<a href="#">NXP Semiconductor</a>
Package/Case	TSSOP-16
Product Type	Embedded Processors & Controllers
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for MC9S08QG8CDTE or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.



## General Description

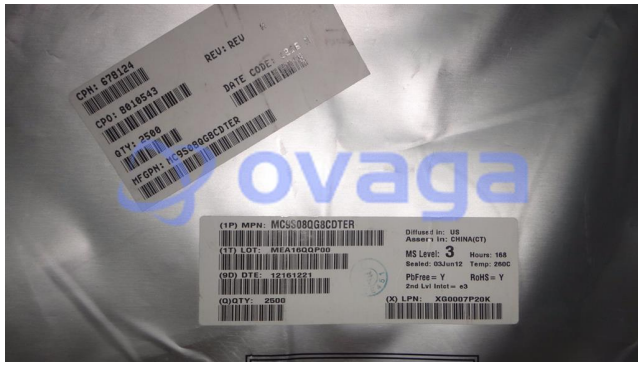
MC9S08QG8CDTE is a microcontroller unit (MCU) from the 8-bit S08QG family of MCUs manufactured by NXP Semiconductors. This MCU is based on the HCS08 core and is designed for embedded control applications that require a small form factor, low power consumption, and high-performance computing capabilities.

## Features

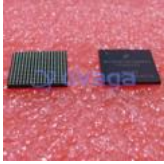
- Operating frequency up to 20 MHz
- 8 KB flash memory and 512 bytes of RAM
- 10-bit analog-to-digital converter (ADC)
- Two timer modules with multiple channels
- Serial communication interfaces, including SCI, SPI, and I2C
- Low power consumption modes for battery-powered applications
- Operating voltage range of 1.8V to 3.6V

## Application

- Consumer electronics such as remote controls, toys, and games
- Industrial control systems such as sensors, actuators, and motor control
- Automotive applications such as instrument clusters, power windows, and door locks
- Medical devices such as blood glucose meters and portable monitors
- Home automation systems such as smart thermostats and security systems

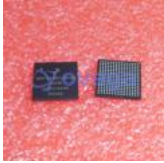


## Related Products



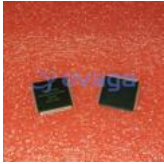
### [MCIMX6Y2CVM08AA](#)

NXP Semiconductor  
MAPBGA-289



### [MCF5253CVM140](#)

NXP Semiconductor  
BGA-225



### [MCF52223CAF80](#)

NXP Semiconductor  
100-LQFP



### [MC9S12DG128MFUE](#)

NXP Semiconductor  
QFP-80



### [MC68302CEH20C](#)

NXP Semiconductor  
PQFP-132



### [MC68332ACEH20](#)

NXP Semiconductor  
QFP132



### [MC9S12DP512VPVE](#)

NXP Semiconductor  
LQFP-112



### [MC9S08GT8AMFBE](#)

NXP Semiconductor  
QFP-44