



# MC9S08QG4MPAE Information

Part Number MC9S08QG4MPAE

Manufacturer NXP

Category Integrated Circuits (ICs)

Embedded - Microcontrollers

**Description** IC MCU 8BIT 4KB FLASH 8DIP

**Package** 8-DIP (0.300", 7.62mm)

For the pricing/inventory/lead time, please contact

us

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## MC9S08QG4MPAE Specifications

Manufacturer Part Number         MC9508QG4MPAE           Manufacturer         NXP           Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         8-DIP (0.300", 7.62mm)           Series         S08           Core Processor         S08           Core Size         8-Bit           Speed         20MHz           Connectivity         12C, SCI, SPI           Peripherals         LVD, POR, PWM, WDT           Number of I/O         4           Program Memory Size         4KB (4K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         256 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         A/D 4x10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         -           Package / Case         8-DIP (0.300", 7.62mm)           Supplier Device Package         8-PDIP		
Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         8-DIP (0.300", 7.62mm)           Series         508           Core Processor         508           Core Size         8-Bit           Speed         20MHz           Connectivity         12C, SCI, SPI           Peripherals         LVD, POR, PWM, WDT           Number of I/O         4           Program Memory Size         4KB (4K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         256 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         A/D 4x10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         -           Package / Case         8-DIP (0.300", 7.62mm)           Supplier Device Package         8-PDIP	Manufacturer Part Number	MC9S08QG4MPAE
Package         8-DIP (0.300", 7.62mm)           Series         S08           Core Processor         S08           Core Size         8-Bit           Speed         20MHz           Connectivity         12C, SCI, SPI           Peripherals         LVD, POR, PWM, WDT           Number of I/O         4           Program Memory Size         4KB (4K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         256 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         A/D 4x10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         -           Package / Case         8-DIP (0.300", 7.62mm)           Supplier Device Package         8-PDIP	Manufacturer	NXP
Package         8-DIP (0.300", 7.62mm)           Series         S08           Core Processor         \$08           Core Size         8-Bit           Speed         20MHz           Connectivity         I2C, SCI, SPI           Peripherals         LVD, POR, PWM, WDT           Number of I/O         4           Program Memory Size         4KB (4K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         256 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         A/D 4x10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         -           Package / Case         8-DIP (0.300", 7.62mm)           Supplier Device Package         8-PDIP	Category	Integrated Circuits (ICs)
Series         S08           Core Processor         \$08           Core Size         \$-Bit           Speed         20MHz           Connectivity         12C, SCI, SPI           Peripherals         LVD, POR, PWM, WDT           Number of I/O         4           Program Memory Size         4KB (4K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         256 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         A/D 4x10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         -           Package / Case         8-DIP (0.300", 7.62mm)           Supplier Device Package         8-PDIP		Embedded - Microcontrollers
Core Processor         \$8-Bit           Speed         20MHz           Connectivity         12C, SCI, SPI           Peripherals         LVD, POR, PWM, WDT           Number of I/O         4           Program Memory Size         4KB (4K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         256 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         A/D 4x10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         -           Package / Case         8-DIP (0.300", 7.62mm)           Supplier Device Package         8-PDIP	Package	8-DIP (0.300", 7.62mm)
Core Size         8-Bit           Speed         20MHz           Connectivity         12C, SCI, SPI           Peripherals         LVD, POR, PWM, WDT           Number of I/O         4           Program Memory Size         4KB (4K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         256 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         A/D 4x10b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         -           Package / Case         8-DIP (0.300", 7.62mm)           Supplier Device Package         8-PDIP	Series	S08
Speed20MHzConnectivity12C, SCI, SPIPeripheralsLVD, POR, PWM, WDTNumber of I/O4Program Memory Size4KB (4K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 4x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case8-DIP (0.300", 7.62mm)Supplier Device Package8-PDIP	Core Processor	S08
Connectivity Peripherals LVD, POR, PWM, WDT  Number of I/O 4 Program Memory Size 4KB (4K x 8) Program Memory Type FLASH EEPROM Size - RAM Size Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters A/D 4x10b  Oscillator Type Internal Operating Temperature -40°C ~ 125°C (TA)  Mounting Type Package / Case 8-DIP (0.300", 7.62mm)  Supplier Device Package	Core Size	8-Bit
Peripherals  Number of I/O  4  Program Memory Size  4KB (4K x 8)  Program Memory Type  FLASH  EEPROM Size  -  RAM Size  256 x 8  Voltage - Supply (Vcc/Vdd)  1.8 V ~ 3.6 V  Data Converters  A/D 4x10b  Oscillator Type  Internal  Operating Temperature  40°C ~ 125°C (TA)  Mounting Type  -  Package / Case  8-DIP (0.300", 7.62mm)  Supplier Device Package	Speed	20MHz
Number of I/O Program Memory Size 4KB (4K x 8) Program Memory Type FLASH  EEPROM Size - RAM Size 256 x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters A/D 4x10b  Oscillator Type Internal Operating Temperature -40°C ~ 125°C (TA)  Mounting Type - Package / Case 8-DIP (0.300", 7.62mm)  Supplier Device Package	Connectivity	I2C, SCI, SPI
Program Memory Size 4KB (4K x 8)  Program Memory Type FLASH  EEPROM Size -  RAM Size 256 x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters A/D 4x10b  Oscillator Type Internal  Operating Temperature -40°C ~ 125°C (TA)  Mounting Type -  Package / Case 8-DIP (0.300", 7.62mm)  Supplier Device Package 8-PDIP	Peripherals	LVD, POR, PWM, WDT
Program Memory Type FLASH  EEPROM Size -  RAM Size 256 x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters A/D 4x10b  Oscillator Type Internal  Operating Temperature -40°C ~ 125°C (TA)  Mounting Type -  Package / Case 8-DIP (0.300", 7.62mm)  Supplier Device Package 8-PDIP	Number of I/O	4
EEPROM Size - 256 x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters A/D 4x10b  Oscillator Type Internal  Operating Temperature -40°C ~ 125°C (TA)  Mounting Type -  Package / Case 8-DIP (0.300", 7.62mm)  Supplier Device Package 8-PDIP	Program Memory Size	4KB (4K x 8)
RAM Size $256 \times 8$ Voltage - Supply (Vcc/Vdd) $1.8 \text{ V} \sim 3.6 \text{ V}$ Data Converters $A/D 4 \times 10b$ Oscillator Type Internal $-40^{\circ}\text{C} \sim 125^{\circ}\text{C (TA)}$ Mounting Type $-$ Package / Case $8-DIP (0.300'', 7.62 \text{mm})$ Supplier Device Package	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd) $1.8 \text{ V} \sim 3.6 \text{ V}$ $Data \text{ Converters} \qquad A/D 4x10b$ $Oscillator \text{ Type} \qquad Internal}$ $Operating \text{ Temperature} \qquad -40^{\circ}\text{C} \sim 125^{\circ}\text{C (TA)}$ $Mounting \text{ Type} \qquad -$ $Package / \text{ Case} \qquad 8-DIP (0.300'', 7.62mm)$ $Supplier \text{ Device Package}$ $8-PDIP$	EEPROM Size	-
Data ConvertersA/D 4x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case8-DIP (0.300", 7.62mm)Supplier Device Package8-PDIP	RAM Size	256 x 8
Oscillator Type Internal $ -40^{\circ}\text{C} \sim 125^{\circ}\text{C (TA)} $ Mounting Type $ - $ Package / Case $ 8-\text{DIP (0.300'', 7.62mm)} $ Supplier Device Package $ 8-\text{PDIP} $	Voltage - Supply (Vcc/Vdd)	1.8 V ~ 3.6 V
Operating Temperature -40°C ~ 125°C (TA)  Mounting Type - Package / Case 8-DIP (0.300", 7.62mm)  Supplier Device Package 8-PDIP	Data Converters	A/D 4x10b
Mounting Type - Package / Case 8-DIP (0.300", 7.62mm) Supplier Device Package 8-PDIP	Oscillator Type	Internal
Package / Case 8-DIP (0.300", 7.62mm) Supplier Device Package 8-PDIP	Operating Temperature	-40°C ~ 125°C (TA)
Supplier Device Package 8-PDIP	Mounting Type	-
	Package / Case	8-DIP (0.300", 7.62mm)
Report errors?	Supplier Device Package	8-PDIP
		Report errors?

### MC9S08QG4MPAE Guarantees



#### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



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We guarantee 100% customer satisfaction.

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#### MC9S08QG4MPAE Payment Methods

































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