

Microcontroller, High Performance, HCS12 Family S12A Series Microcontrollers, HCS12, 16bit, 25 MHz

Manufacturers	NXP Semiconductor
Package/Case	TQFP-112
Product Type	Embedded Processors & Controllers
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for MC9S12A128CPVE or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

MC9S12A128CPVE is a microcontroller unit (MCU) from the S12 family of MCUs by NXP Semiconductors (formerly Freescale Semiconductor).

Features

16-bit CPU core with 8 MHz maximum operating frequency

128 KB of flash memory for program code storage

4 KB of EEPROM for non-volatile data storage

4 KB of RAM for data storage and manipulation

16-channel, 10-bit analog-to-digital converter (ADC)

Multiple communication interfaces including SCI, SPI, and I2C

Timers, PWM outputs, and interrupt controllers for time-critical tasks

Operating voltage range of 2.35V to 5.5V

80-pin LQFP package

Application

Automotive electronics, such as engine control units (ECUs), instrument clusters, and body control modules

Industrial control systems, such as factory automation equipment and robotics

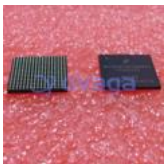
Medical devices, such as patient monitors and diagnostic equipment

Home appliances, such as washing machines and air conditioners

Consumer electronics, such as smart home devices and portable audio players



Related Products



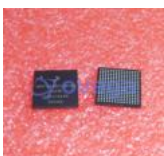
[MCIMX6Y2CVM08AA](#)

NXP Semiconductor
MAPBGA-289



[MC68302CEH20C](#)

NXP Semiconductor
PQFP-132



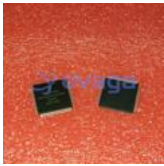
[MCF5253CVM140](#)

NXP Semiconductor
BGA-225



[MC68332ACEH20](#)

NXP Semiconductor
QFP132



[MCF52223CAF80](#)

NXP Semiconductor
100-LQFP



[MC9S12DG128MFUE](#)

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QFP-80



[MC9S12DP512VPVE](#)

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LQFP-112



[MC9S08GT8AMFBE](#)

NXP Semiconductor
QFP-44