

Microcontroller, HCS12 Family S12A Series Microcontrollers, HCS12, 16bit, 25 MHz, 256 KB, 12 KB

| | |
|---------------|-----------------------------------|
| Manufacturers | NXP Semiconductor |
| Package/Case | QFP-80 |
| Product Type | Embedded Processors & Controllers |
| RoHS | |
| Lifecycle | |



Images are for reference only

Please submit RFQ for MC9S12A256CFUE or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

MC9S12A256CFUE is a microcontroller from the Freescale (now NXP) HC12 family, which is a 16-bit microcontroller architecture. It has 256 KB of flash memory, 12 KB of RAM, and an operating frequency of up to 25 MHz. Some of its features include:

Features

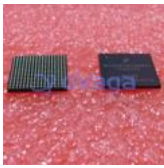
- 16-bit central processing unit (CPU) with enhanced multiply and divide instructions
- Multiple communication interfaces such as SCI, SPI, CAN, and I2C
- 16-channel, 10-bit analog-to-digital converter (ADC)
- Pulse width modulation (PWM) modules for motor control
- Timers and interrupt controllers for precise timing and event handling
- In-system programming and debugging capabilities

Application

- Engine management systems in automobiles
- Industrial automation and control systems
- Medical devices such as patient monitors and infusion pumps
- Consumer electronics such as remote controls and gaming systems



Related Products



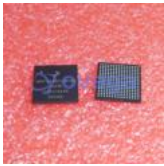
[MCIMX6Y2CVM08AA](#)

NXP Semiconductor
MAPBGA-289



[MC68302CEH20C](#)

NXP Semiconductor
PQFP-132



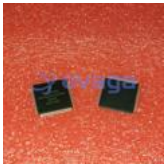
[MCF5253CVM140](#)

NXP Semiconductor
BGA-225



[MC68332ACEH20](#)

NXP Semiconductor
QFP132



[MCF52223CAF80](#)

NXP Semiconductor
100-LQFP



[MC9S12DP512VPVE](#)

NXP Semiconductor
LQFP-112



[MC9S12DG128MFUE](#)

NXP Semiconductor
QFP-80



[MC9S08GT8AMFBE](#)

NXP Semiconductor
QFP-44