

16-bit Digital Signal Controllers, Microcontrollers (MCU) 16 BIT HYBRID CONTROLLER

Manufacturers	<u>NXP Semiconductor</u>
Package/Case	LQFP-64
Product Type	Embedded Processors & Controllers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for MC56F8123VFBE or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

MC56F8123VFBE is a digital signal controller (DSC) developed by NXP Semiconductors. It belongs to the 56800E core-based DSC family and is designed for real-time control applications.

Features

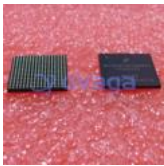
- 32-bit DSP core with Harvard architecture
- Single-cycle multiplication and hardware division
- 64 KB on-chip flash memory
- 8 KB on-chip SRAM
- Up to 40 MHz CPU clock speed
- Multiple communication interfaces, including SPI, I2C, UART, and CAN
- Analog-to-digital converter (ADC) with 16-bit resolution
- Pulse-width modulation (PWM) generator
- On-chip temperature sensor
- Low power consumption

Application

- Motor control (e.g., for industrial automation, automotive, and consumer electronics)
- Power supply control (e.g., for server, telecom, and data center)
- Lighting control (e.g., for street lighting, stadium lighting, and smart homes)
- Sensor processing (e.g., for health monitoring, environmental sensing, and smart agriculture)
- Audio processing (e.g., for voice recognition, noise cancellation, and musical instruments)



Related Products



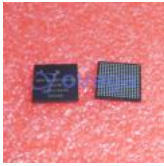
[MCIMX6Y2CVM08AA](#)

NXP Semiconductor
MAPBGA-289



[MC68302CEH20C](#)

NXP Semiconductor
PQFP-132



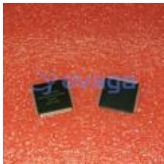
[MCF5253CVM140](#)

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