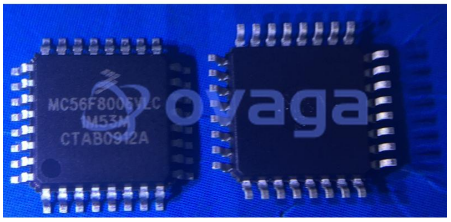
MC56F8006VLC

Data Sheet

DSC 32LQFP 16K FLASH,Digitala signalprocessorer och kontroller (DSP, DSC) DSC 32LQFP 16K Flash

Manufacturers	NXP Semiconductor
Package/Case	LQFP-32
Product Type	Embedded Processors & Controllers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for MC56F8006VLC or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFQ

General Description

MC56F8006VLC is a microcontroller unit (MCU) manufactured by NXP Semiconductors. It is a member of the 56F8000 family of MCUs, which are designed for digital signal processing (DSP) applications.

Features

32-bit core operating at up to 60 MHz

128 KB flash memory and 12 KB RAM

Multiple communication interfaces, including UART, SPI, and I2C

Multiple timer modules and pulse width modulation (PWM) outputs

Analog-to-digital converter (ADC) with up to 16 channels and 12-bit resolution

On-chip temperature sensor and voltage reference

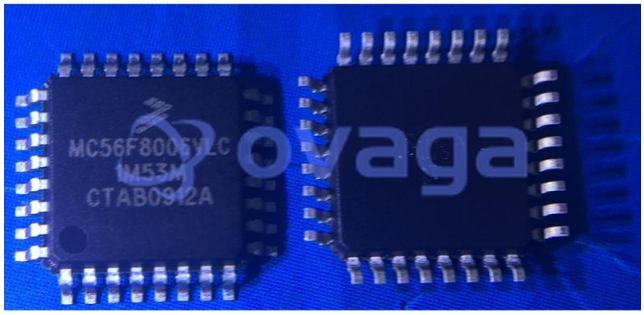
Application

Motor control: The MCU's DSP capabilities make it suitable for controlling various types of motors, such as brushless DC (BLDC), stepper, and permanent magnet synchronous motors (PMSM).

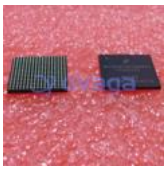
Power conversion: MC56F8006VLC can be used in power converters, such as AC/DC and DC/DC converters, for applications such as lighting, industrial control, and renewable energy.

Audio processing: The MCU's DSP capabilities make it suitable for audio processing applications, such as audio effects, noise reduction, and audio synthesis.

Industrial control: MC56F8006VLC can be used in various industrial control applications, such as robotics, automation, and process control.



Related Products



[MCIMX6Y2CVM08AA](#)

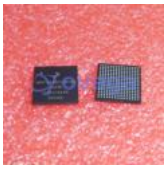
NXP Semiconductor

MAPBGA-289

[MC68302CEH20C](#)

NXP Semiconductor

PQFP-132



[MCF5253CVM140](#)

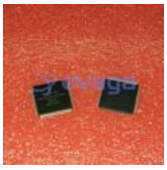
NXP Semiconductor

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