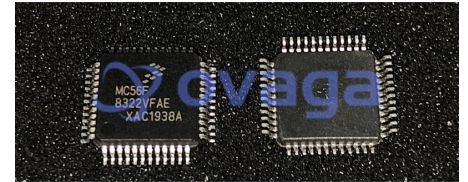


16-bit Digital Signal Controllers, Digitala signalprocessorer och kontroller (DSP, DSC) 16 BIT HYBRID CNTRLR

Manufacturers	<a href="#">NXP Semiconductor</a>
Package/Case	LQFP-48
Product Type	Embedded Processors & Controllers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for MC56F8322VFAE or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

MC56F8322VFAE is a microcontroller from the MC56F83xx family of Digital Signal Controllers (DSCs) manufactured by NXP Semiconductors. It is a 32-bit DSC with an integrated analog-to-digital converter (ADC) and digital-to-analog converter (DAC), designed for motor control and digital power conversion applications.

## Features

A 32-bit CPU core operating at up to 80 MHz

32 KB of flash memory for program storage

4 KB of data RAM for variables and stack

An integrated ADC with up to 12-bit resolution and 16 channels

An integrated DAC with up to 12-bit resolution and 2 channels

Multiple communication interfaces, including SPI, I2C, and UART

PWM and capture/compare timer modules for motor control

Up to 52 general-purpose input/output (GPIO) pins

## Application

Motor control, such as in electric vehicles, industrial automation, and robotics

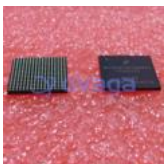
Digital power conversion, such as in uninterruptible power supplies (UPS), power inverters, and solar inverters

Consumer electronics, such as audio equipment and gaming consoles

Medical devices, such as ultrasound machines and infusion pumps



## Related Products



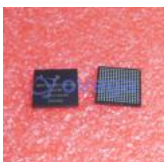
[MCIMX6Y2CVM08AA](#)

NXP Semiconductor  
MAPBGA-289



[MC68302CEH20C](#)

NXP Semiconductor  
PQFP-132



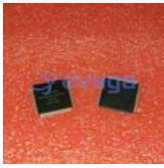
[MCF5253CVM140](#)

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