MC56F8365MFGE

Data Sheet

16 BIT HYBRID CONTROLLER,Digital Signal Processors & Controllers (DSP, DSC)
(DSP, DSC) 16 BIT HYBRID CONTROLLER

Manufacturers	NXP Semiconductor
Package/Case	LQFP-128
Product Type	Embedded Processors & Controllers
RoHS	Rohs
Lifecycle	

Images are for reference only

Please submit RFQ for MC56F8365MFGE or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFQ

General Description

MC56F8365MFGE is a digital signal controller (DSC) manufactured by NXP Semiconductors. It is a member of the 56800/E family of DSCs, which are optimized for digital signal processing and control applications.

Features

It has a 32-bit CPU core with a clock speed of up to 80 MHz.

It has 128 KB of flash memory and 12 KB of RAM.

It has a variety of communication interfaces, including SPI, I2C, CAN, and UART.

It has 16-bit ADCs with up to 16 channels, and 12-bit DACs with up to 4 channels.

It has a PWM module with up to 12 channels.

Application

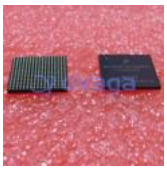
Motor control: it is well-suited for controlling brushless DC motors, permanent magnet synchronous motors, and stepper motors.

Power management: it can be used to implement power factor correction, AC-DC conversion, and DC-DC conversion.

Audio processing: it can be used for speech recognition, noise cancellation, and audio synthesis.

Industrial automation: it can be used for controlling industrial machinery and monitoring sensors.

Related Products



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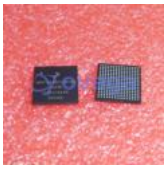
NXP Semiconductor

MAPBGA-289

[MC68302CEH20C]

NXP Semiconductor

PQFP-132



[MCF5253CVM140]

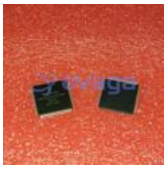
NXP Semiconductor

BGA-225

[MC68332ACEH20]

NXP Semiconductor

QFP132



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NXP Semiconductor

100-LQFP

[MC9S12DP512VPVE]

NXP Semiconductor

LQFP-112

[MC9S12DG128MFUE]

NXP Semiconductor

QFP-80

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QFP-44