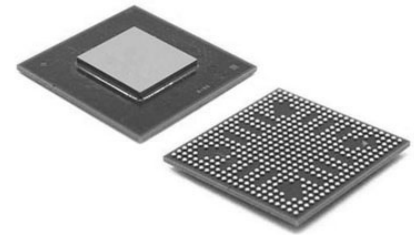


ARM MCU, Precision Analogue, ADUC Family ADUCM3 Series Microcontrollers, ARM Cortex-M3, 32bit

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	LFCSP-48
Product Type	Embedded Processors & Controllers
RoHS	Green
Lifecycle	



Images are for reference only

Please submit RFQ for ADUCM360BCPZ128 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

### APPLICATIONS

### Features

- Analog input/output
- Dual (24-bit) ADCs
- 6 differential or 12 single-ended input channels
- Programmable Gain Amplifiers (PGA) (1-128) for each ADC
- Flexible input MUX for input channel selection to both ADCs
- Buffers for external reference connection
- Programmable sensor excitation current sources
- On-chip precision voltage reference
- Single 12-bit voltage output DAC
- NPN mode for 4 mA to 20 mA loop applications
- Microcontroller

### Application

- Industrial automation and process control
- Intelligent precision sensing systems
- 4 mA to 20 mA loop-powered smart sensor systems
- Medical devices, patient monitoring

ARM Cortex-M3 32-bit processor

Serial wire download and debug

Internal watch crystal for wakeup timer

16 MHz oscillator with 8-way programmable divider

Memory

128 kB Flash/EE Memory, 8k Bytes SRAM

In-circuit debug/download via Serial Wire and UART

Power

Operates directly from a 3.0V battery

Power consumption

MCU Active Mode: Core consumes 290 $\mu$ A / MHz

Active Mode: 1.0mA (All peripherals active), core operating at 500KHz

Supply Range: 1.8V to 3.6V (max)

Power down mode: 4 $\mu$ A (WU Timer Active)

On-chip peripheral

UART, I2C and 2 x SPI serial I/O

16-bit PWM controller

19-pin multifunction GPIO Port

See data sheet for additional features

Package and temperature range

48-lead LFCSP (7mm x 7mm) package -40°C to 125°C

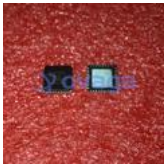
Development tools

Low cost QuickStart Development System

Third-party compiler and emulator tool support

Multiple functional safety features for improved diagnostics

## Related Products



[ADUC7022BCPZ62](#)

Analog Devices, Inc  
LFCSP-40



[ADUC7020BCPZ62](#)

Analog Devices, Inc  
LFCSP-40



[ADUC841BSZ62-5](#)

Analog Devices, Inc  
QFP-52



[ADUC841BSZ62-3](#)

Analog Devices, Inc  
QFP-52



[ADUC831BSZ](#)

Analog Devices, Inc  
QFP-52



[ADSP-BF527BBCZ-5A](#)

Analog Devices, Inc  
BGA-208



[ADSP-21369BBPZ-2A](#)

Analog Devices, Inc  
SBGA-256



[ADSP-BF561SBBCZ-5A](#)

Analog Devices, Inc  
CSPBGA-256