

MicroConverter, 12-Bit ADCs and DACs with Embedded 62 kBytes Flash MCU

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	MQFP-52
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ADUC831BS or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

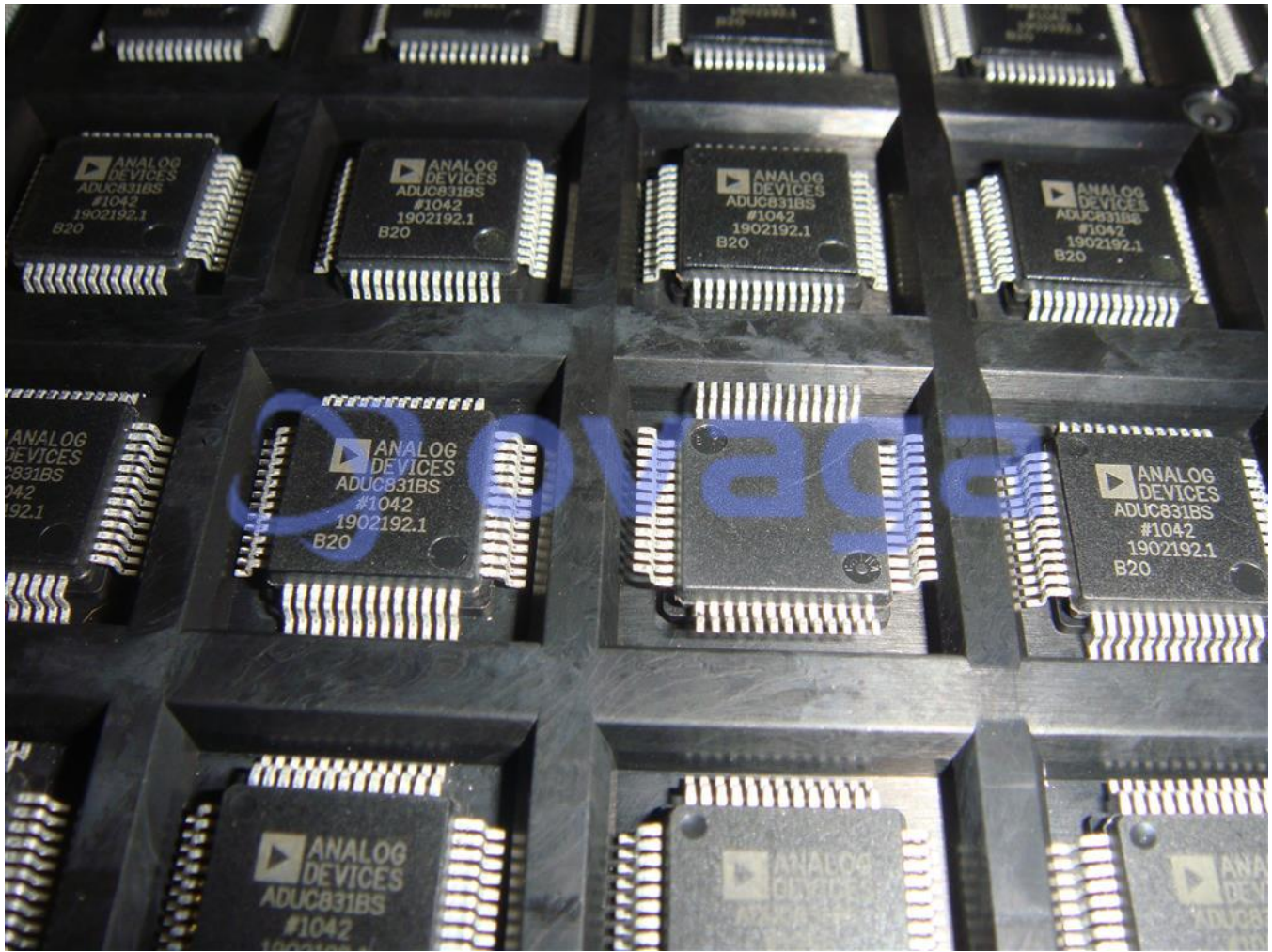
ADUC831BS is a microcontroller chip produced by Analog Devices Inc. It is part of the ADuC8xx family of microcontrollers and is specifically designed for use in measurement and control applications.

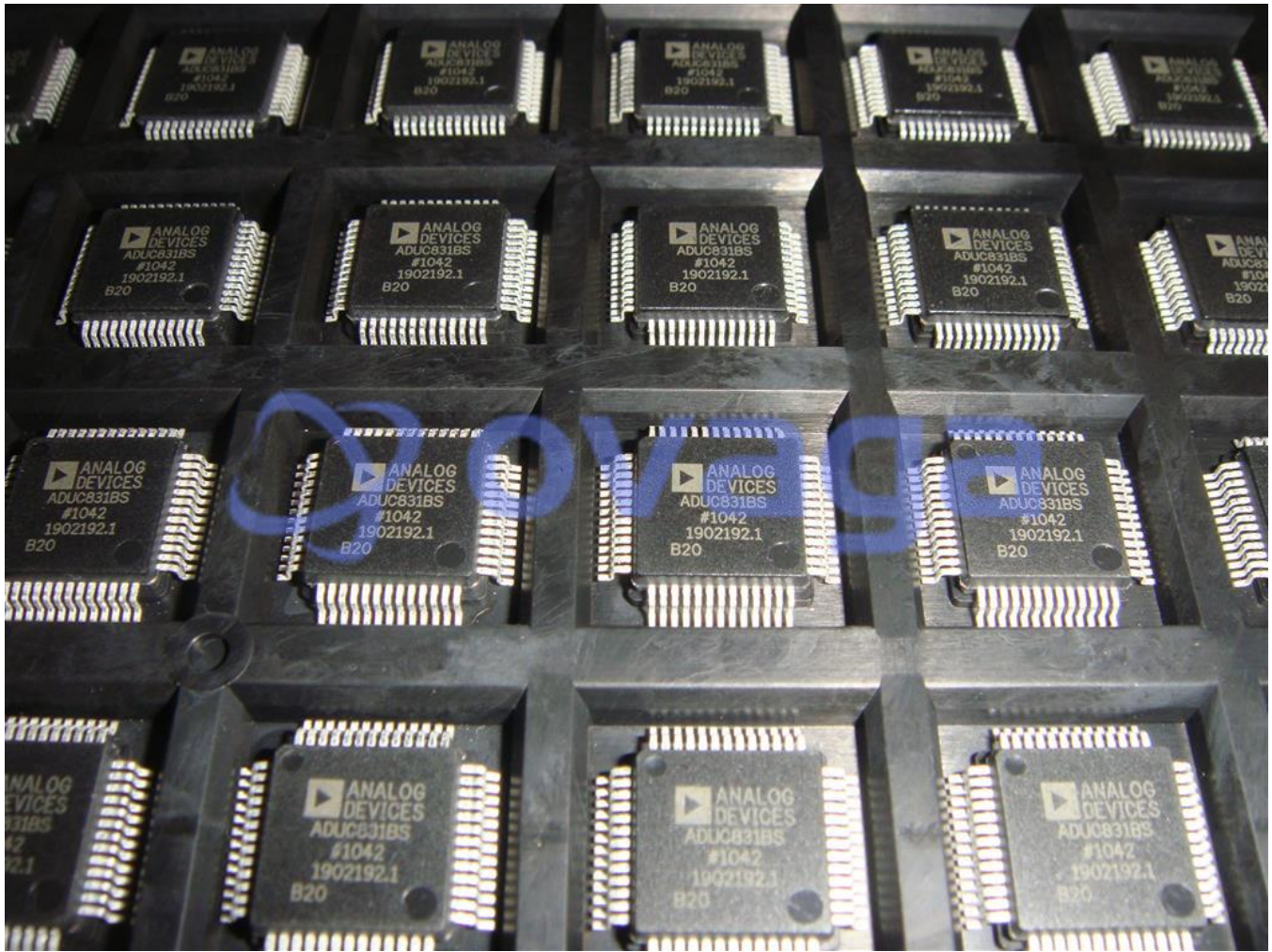
## Features

- 8052 processor core running at up to 12 MHz
- 62KB on-chip flash memory for program storage
- 2KB on-chip RAM for data storage
- 12-bit analog-to-digital converter (ADC) with 8 input channels
- Dual programmable gain amplifier (PGA) with a gain range of 1 to 64
- 2 programmable voltage references
- Multiple communication interfaces, including SPI, UART, and I2C
- Low power consumption
- Operating temperature range of -40°C to +85°C

## Application

- Industrial automation and control systems
- Sensor and measurement systems
- Data acquisition and logging systems
- Process control and monitoring systems
- Medical instruments and devices





## Related Products



### [ADUM1300](#)

Analog Devices, Inc



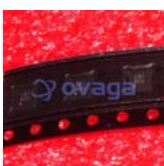
### [ADG5409BCPZ](#)

Analog Devices, Inc  
LFCSP-16



### [ADR391AUJZ](#)

Analog Devices, Inc  
SOT23-5



### [ADM7171ACPZ](#)

Analog Devices, Inc  
LFCSP8



### [ADL5310ACPZ](#)

Analog Devices, Inc  
LFCSP-24



### [ADG3308BCPZ](#)

Analog Devices, Inc  
20LFCSP



### [ADCMP600BKSZ](#)

Analog Devices, Inc  
SC-70-5



### [ADCMP601BKSZ](#)

Analog Devices, Inc  
SC70