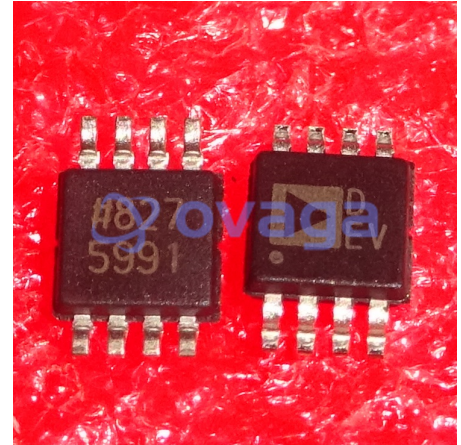


Digital to Analogue Converter, 16 bit, 1.2 MSPS, SPI, 4.5V to 5.5V, MSOP, 8 Pins

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	MSOP-8
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD5543CRMZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The AD5543/AD5553 are precision 16-/14-bit, low power, current output, small form factor digital-to-analog converters (DACs). They are designed to operate from a single 5 V supply with a  $\pm 10$  V multiplying reference.

The applied external reference, VREF, determines the full-scale output current. An internal feedback resistor (RFB) facilitates the R-2R and temperature tracking for voltage conversion when combined with an external op amp.

A serial-data interface offers high speed, 3-wire microcontroller-compatible inputs using serial data in (SDI), clock (CLK), and chip select (CS).

The AD5543/AD5553 are packaged in ultracompact (3 mm  $\times$  4.7 mm) 8-lead MSOP and 8-lead SOIC packages.

## Features

16-bit resolution

Low noise: 12 nV/ $\sqrt{\text{Hz}}$

Low power:>

0.5  $\mu\text{s}$  settling time

4-quadrant multiplying reference input

2 mA full-scale current  $\pm 20\%$ , with>

Built-in RFB facilitates voltage conversion

3-wire interface

Ultracompact 8-lead MSOP and 8-lead SOIC packages

AD5543-EP supports defense and aerospace applications (AQEC standard)

[Download\(pdf\)](#)

Military temperature range ( $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ )

Controlled manufacturing baseline

One assembly/test site

One fabrication site

Enhanced product change notification

Qualification data available on request

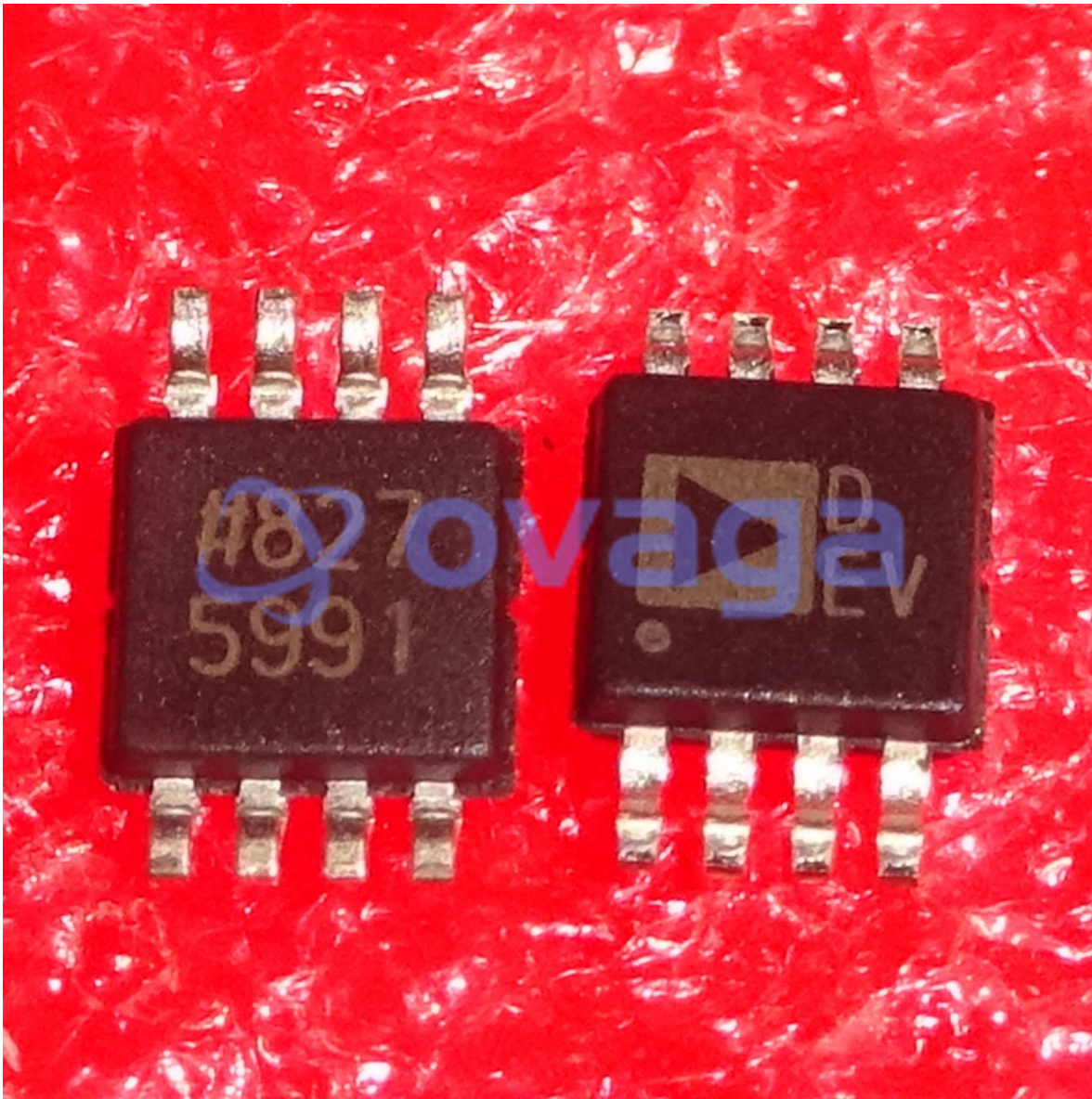
## Application

Automatic test equipment

Instrumentation

Digitally controlled calibration

Industrial control PLCs

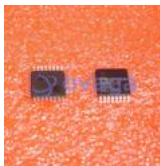


## Related Products



### [ADAS3022BCPZ](#)

Analog Devices, Inc  
LFCSP-40



### [AD7266BSUZ](#)

Analog Devices, Inc  
TQFP-32



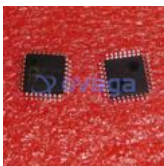
### [AD574AJNZ](#)

Analog Devices, Inc  
PDIP-28



### [AD7401YRWZ](#)

Analog Devices, Inc  
SOIC-16



### [AD7938BSUZ](#)

Analog Devices, Inc  
TQFP-32



### [AD7192BRUZ-REEL](#)

Analog Devices, Inc  
TSSOP-24



[AD7124-8BCPZ-RL7](#)

Analog Devices, Inc

LFCSP-32



[AD9680BCPZ-500](#)

Analog Devices, Inc

LFCSP-64