

Digital to Analogue Converter, Octal, 16 bit, Microwire, QSPI, SPI, 2.7V to 5.5V, TSSOP, 20 Pins

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	20-TSSOP (0.173", 4.40mm Width)
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for AD5676BRUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The AD5676 is a low power, octal, 16-bit buffered voltage output digital-to-analog converter (DAC). The device includes a gain select pin, giving a full-scale output of  $V_{REF} = 2$ . The AD5676 DAC operates from a single 2.7 V to 5.5 V supply and is guaranteed monotonic by design. The AD5676 is available in 20-lead TSSOP and LFCSP packages.

The internal power-on reset circuit and the RSTSEL pin of the AD5676 ensure that the output DACs power up to zero scale or midscale and then remain there until a valid write takes place. The AD5676 contains a per channel power-down mode that typically reduces the current consumption of the device to 1  $\mu$ A.

The AD5676 employs a versatile serial peripheral interface (SPI) that operates at clock rates up to 50 MHz, and contains a VLOGIC pin intended for 1.62 V to 5.5 V logic.

### Product Highlights

High Relative Accuracy (INL) 16-bit:  $\pm 3$  LSB maximum

$-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  temperature range

20-lead, TSSOP and LFCSP RoHS-compliant packages

## Features

High performance

High relative accuracy (INL):  $\pm 3$  LSB maximum at 16 bits

Total unadjusted error (TUE):  $\pm 0.14\%$  of FSR maximum

Offset error:  $\pm 1.5$  mV maximum

Gain error:  $\pm 0.06\%$  of FSR maximum

Wide operating ranges

2.7 V to 5.5 V power supply

Easy implementation

User selectable gain of 1 or 2 (GAIN pin/gain bit)

Reset to zero scale or midscale (RSTSEL pin)

1.8 V logic compatibility

50 MHz SPI with readback or daisy chain

20-lead, TSSOP and LFCSP RoHS-compliant packages

## Application

Optical transceivers

Base-station power amplifiers

Process control (PLC input/output cards)

Industrial automation

Data acquisition systems

## Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc  
LFCSP-40



[AD574AJNZ](#)

Analog Devices, Inc  
PDIP-28



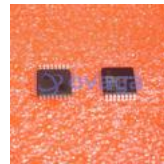
[AD7938BSUZ](#)

Analog Devices, Inc  
TQFP-32



[AD7124-8BCPZ-RL7](#)

Analog Devices, Inc  
LFCSP-32



[AD7266BSUZ](#)

Analog Devices, Inc  
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[AD7401YRWZ](#)

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TSSOP-24



[AD9680BCPZ-500](#)

Analog Devices, Inc  
LFCSP-64