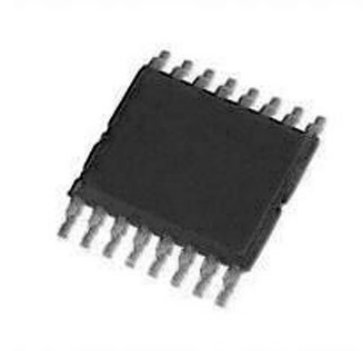


Digital to Analogue Converter, Quad, 12 bit, 125 kSPS, Serial, 4.5V to 5.5V, TSSOP, 16 Pins

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	TSSOP-16
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD5024BRUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The AD5024/AD5044/AD5064 are low power, quad 12-/14-/ 16-bit buffered voltage output nanoDAC® DACs that offer relative accuracy specifications of 1 LSB INL and 1 LSB DNL with individual reference pins and can operate from a single 4.5 V to 5.5 V supply. The AD5024 / AD5044 / AD5064 parts also offer a differential accuracy specification of  $\pm 1$  LSB. The parts use a versatile 3-wire, low power Schmitt trigger serial interface that operates at clock rates up to 50 MHz and is compatible with standard SPI, QSPI™, MICROWIRE™, and DSP interface standards. Integrated reference buffers and output amplifiers are also provided on-chip. The AD5024/AD5044/AD5064/AD5064-1 incorporate a power-on reset circuit that ensures the DAC output powers up to zero scale or midscale and remains there until a valid write takes place to the device. The AD5024 / AD5044 / AD5064 / AD5064-1 contain a power-down feature that reduces the current consumption of the device to typically 400 nA at 5 V and provides software selectable output loads while in power-down mode. Total unadjusted error for the parts is  $< 2$  mV.

### Product Highlights

Quad channel available in 16-lead TSSOP package.

16-bit accurate, 1 LSB INL.

Low glitch on power-up.

High speed serial interface with clock speeds up to 50 MHz.

Reset to known output voltage (zero scale or midscale).

## Features

Low power quad 12-/14-/16-bit DAC,  $\pm 1$  LSB INL

Pin compatible and performance upgrade to

Individual and common voltage reference pin options

Rail-to-rail operation

4.5 V to 5.5 V power supply

Power-on reset to zero scale or midscale

3 power-down functions and per-channel power-down

Hardware LDAC with software LDAC override function

CLR function to programmable code

SDO daisy-chaining option

14-/16-lead TSSOP

Internal reference buffer and internal output amplifier

## Application

Process control

Data acquisition systems

Portable battery-powered instruments

Digital gain and offset adjustment

Programmable voltage and current sources

Programmable attenuators

## 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  
TQFP-32



[AD7401YRWZ](#)

Analog Devices, Inc  
SOIC-16



[AD7192BRUZ-REEL](#)

Analog Devices, Inc  
TSSOP-24



[AD9680BCPZ-500](#)

Analog Devices, Inc  
LFCSP-64