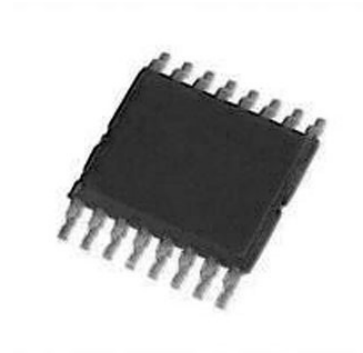


Digital to Analogue Converter, 16 bit, 125 kSPS, 3 Wire, Serial, 4.5V to 5.5V, TSSOP, 14 Pins

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP-16
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD5064BRUZ-1 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 ± 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, ± 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



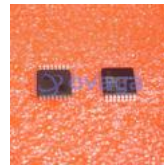
[AD574AJNZ](#)
Analog Devices, Inc
PDIP-28



[AD7938BSUZ](#)
Analog Devices, Inc
TQFP-32



[AD7124-8BCPZ-RL7](#)
Analog Devices, Inc
LFCSP-32



[AD7266BSUZ](#)
Analog Devices, Inc
TQPF-32



[AD7401YRWZ](#)
Analog Devices, Inc
SOIC-16



[AD7192BRUZ-REEL](#)
Analog Devices, Inc
TSSOP-24



[AD9680BCPZ-500](#)
Analog Devices, Inc
LFCSP-64