

Digital to Analogue Converter, 16 bit, SPI, 4.75V to 30V, TSSOP, 16 Pins

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



Images are for reference only

Please submit RFQ for AD5761ARUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD5761/AD5721 are single channel, 16-/12-bit serial input, voltage output, digital-to-analog converters (DACs). They operate from single supply voltages from +4.75 V to +30 V or dual supply voltages from -16.5 V to 0 V VSS and +4.75 V to +16.5 V VDD. The integrated output amplifier and reference buffer provide a very easy to use, universal solution.

The devices offer guaranteed monotonicity, integral nonlinearity (INL) of ± 2 LSB maximum, 35 nV/ $\sqrt{\text{Hz}}$ noise, and 7.5 μs settling time on selected ranges.

The AD5761/AD5721 use a serial interface that operates at clock rates of up to 50 MHz and are compatible with DSP and microcontroller interface standards. Double buffering allows the asynchronous updating of the DAC output. The input coding is user-selectable two's complement or straight binary. The asynchronous reset function resets all registers to their default state. The output range is user selectable, via the RA[2:0] bits in the control register.

The devices available in the 16-lead TSSOP and in the 16-lead LFCSP offer guaranteed specifications over the -40°C to +125°C industrial temperature range.

Features

8 software-programmable output ranges: 0 V to +5 V, 0 V to +10 V, 0 V to +16 V, 0 V to +20 V, ± 3 V, ± 5 V, ± 10 V, -2.5 V to +7.5 V; 5% overrange

Total unadjusted error (TUE): 0.1% FSR maximum

16-bit resolution: ± 2 LSB maximum INL

Guaranteed monotonicity: ± 1 LSB maximum

Single channel, 16-bit DACs

Settling time: 7.5 μ s typical

Integrated reference buffers

Low noise: 35 nV/ $\sqrt{\text{Hz}}$

Low glitch: 1 nV-sec

1.8 V logic compatibility

Asynchronous updating via LDAC

Asynchronous RESET to zero scale/midscale

DSP/microcontroller-compatible serial interface

Robust 4 kV HBM ESD rating

Available in 16-lead TSSOP and 16-lead LFCSP

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

Application

Industrial automation

Instrumentation, data acquisition

Open-/closed-loop servo control,
process control

Programmable logic controllers

Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



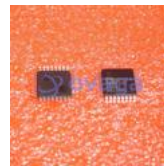
[AD574AJNZ](#)

Analog Devices, Inc
PDIP-28



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TQFP-32



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[AD9680BCPZ-500](#)

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LFCSP-64