

Analogue Switch, Dual Channel, 2 Channels, SPDT, 1 ohm, 3.3V to 16V, TSSOP, 16 Pins

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



Images are for reference only

Please submit RFQ for ADG1636BRUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADG1636 is a monolithic CMOS device containing two independently selectable single-pole/double-throw (SPDT) switches. An EN input is used to enable or disable the device. When disabled, all channels are switched off. Each switch conducts equally well in both directions when on and has an input signal range that extends to the supplies. In the off condition, signal levels up to the supplies are blocked. Both switches exhibit break-before-make switching action for use in multiplexer applications.

The ultralow on resistance of these switches make them ideal solutions for data acquisition and gain switching applications where low on resistance and distortion is critical. The on resistance profile is very flat over the full analog input range, ensuring excellent linearity and low distortion when switching audio signals.

The CMOS construction ensures ultralow power dissipation, making the devices ideally suited for portable and battery-powered instruments.

### Product Highlights

1.6  $\Omega$  maximum on resistance over temperature.

Minimum distortion: THD  $\rightarrow$

3 V logic-compatible digital inputs: = 0.8 V.

No VL logic power supply required.

Ultralow power dissipation: <16 nW.

16-lead TSSOP and 16-lead 4 mm  $\times$  4 mm LFCSP.

## Features

1  $\Omega$  typical on resistance

0.2  $\Omega$  on resistance flatness

3.3 V to 16 V single supply operation

No VL supply required

3 V logic-compatible inputs

Rail-to-rail operation

Continuous current per channel

LFCSP: 385 mA

TSSOP: 238 mA

16-lead TSSOP and 16-lead, 4 mm  $\times$  4 mm LFCSP

## Application

Communication systems

Medical systems

Audio signal routing

Video signal routing

Automatic test equipment

Data acquisition systems

Battery-powered systems

Sample-and-hold systems

Relay replacements

## Related Products



### [ADV7181CBSTZ](#)

Analog Devices, Inc  
LQFP-64



### [AD724JR](#)

Analog Devices, Inc  
SOIC-16



### [ADV7391WBCPZ](#)

Analog Devices, Inc  
LFSCP-3



### [ADV7341BSTZ](#)

Analog Devices, Inc  
LQFP-64



### [AD8170AR](#)

Analog Devices, Inc  
SOP8



### [ADV7393BCPZ](#)

Analog Devices, Inc  
LFCSP-VQ-40



### [ADV7390BCPZ](#)

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QFN32



### [ADUM4160BRIZ](#)

Analog Devices, Inc  
SOIC-16