

4.5  $\Omega$  RON, 16-Channel, Differential 8-Channel,  $\pm 5V$ , +12 V, +5 V, and +3.3 V Multiplexers; No of Pins: 28; Temperature Range: Ind

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	TSSOP28
Product Type	Multiplexer Switch ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADG1606BRUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADG1606 and ADG1607 are monolithic iCMOS® analog multiplexers comprising of 16 single channels and eight differential channels, respectively. The ADG1606 switches one of 16 inputs to a common output, as determined by the 4-bit binary address lines (A0, A1, A2, and A3). The ADG1607 switches one of eight differential inputs to a common differential output, as determined by the 3-bit binary address lines (A0, A1, and A2). An EN input on both devices enables or disables the device. When disabled, all channels switch off. When enabled, each channel conducts equally well in both directions and has an input signal range that extends to the supplies.

The ultralow on resistance and on-resistance flatness of these switches make them ideal solutions for data acquisition and gain switching applications where low distortion is critical. iCMOS® construction ensures ultralow power dissipation, making the parts ideally suited for portable and battery-powered instruments.

### Product Highlights

7.5  $\Omega$  maximum on resistance over temperature.

Minimum distortion: THD  $\rightarrow$

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

No VL logic power supply required.

## Features

4.5  $\Omega$  typical on resistance

1.1  $\Omega$  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

Up to 378 mA of continuous current per channel

28-lead TSSOP and 32-lead, 5 mm  $\times$  5 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

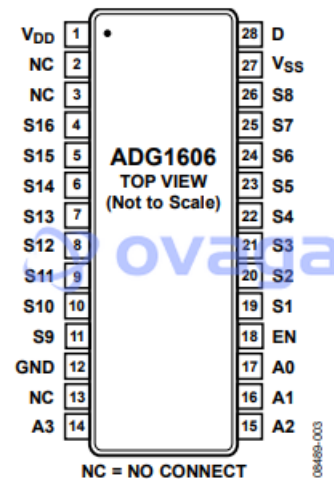


Figure 3. ADG1606 TSSOP Pin Configuration

## Related Products



[ADV7181CBSTZ](#)

Analog Devices, Inc  
LQFP-64



[AD8170AR](#)

Analog Devices, Inc  
SOP8



[AD724JR](#)

Analog Devices, Inc  
SOIC-16



[ADV7393BCPZ](#)

Analog Devices, Inc  
LFCSP-VQ-40



[ADV7391WBCPZ](#)

Analog Devices, Inc  
LFCSP-3



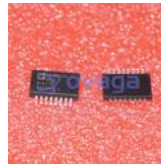
[ADV7390BCPZ](#)

Analog Devices, Inc  
QFN32



[ADV7341BSTZ](#)

Analog Devices, Inc  
LQFP-64



[ADUM4160BRIZ](#)

Analog Devices, Inc  
SOIC-16