

Analog Multiplexer, 4:1, 1 Circuit, 1.8 ohm, 170  $\mu$ A,  $\pm$  5V, 12V,  $\pm$  15V, TSSOP-14

|               |                                     |
|---------------|-------------------------------------|
| Manufacturers | <a href="#">Analog Devices, Inc</a> |
| Package/Case  | TSSOP-14                            |
| Product Type  | Analog Switch ICs                   |
| RoHS          |                                     |
| Lifecycle     |                                     |



Images are for reference only

Please submit RFQ for ADG1404YRUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADG1404 is a complementary metal-oxide semiconductor (CMOS) analog multiplexer, comprising four single channels designed on an iCMOS® process. iCMOS (industrial CMOS) is a modular manufacturing process that combines high voltage CMOS and bipolar technologies. It enables the development of a wide range of high performance analog ICs capable of 33 V operation in a footprint that no previous generation of high voltage devices achieve. Unlike analog ICs using conventional CMOS processes, iCMOS components can tolerate high supply voltages while providing increased performance, dramatically lower power consumption, and reduced package size.

The on-resistance profile is very flat over the full analog input range, ensuring excellent linearity and low distortion when switching audio signals.

iCMOS construction ensures ultralow power dissipation, making the device ideally suited for portable and battery-powered instruments.

The ADG1404 switches one of four inputs to a common output, D, as determined by the 3-bit binary address lines, A0, A1, and EN. Logic 0 on the EN pin disables the device. 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. All switches exhibit break-before-make switching action. Inherent in the design is low charge injection for minimum transients when switching the digital inputs.

### Product Highlights

2.6  $\Omega$  maximum on resistance over temperature.

Minimum distortion.

Ultralow power dissipation: <0.03  $\mu$ W.

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

## Features

1.5  $\Omega$  on-resistance

0.3  $\Omega$  on-resistance flatness

0.1  $\Omega$  on-resistance match between channels

Up to 400 mA continuous current

Fully specified at +12 V,  $\pm 15$  V, and  $\pm 5$  V

No VL supply required

3 V logic-compatible inputs

Rail-to-rail operation

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

## Application

Automatic test equipment

Data acquisition systems

Battery-powered systems

Sample-and-hold systems

Audio signal routing

Communication systems

Relay replacement



## 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  
LFSCP-3



### [ADV7390BCPZ](#)

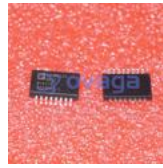
Analog Devices, Inc  
QFN32



[ADV7341BSTZ](#)

Analog Devices, Inc

LQFP-64



[ADUM4160BRIZ](#)

Analog Devices, Inc

SOIC-16