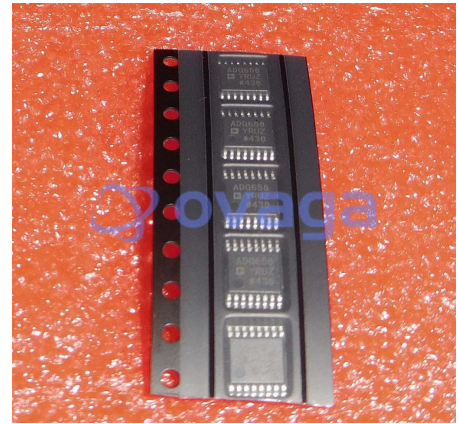


Analog Multiplexer Single 8:1 Automotive 16-Pin TSSOP Tube

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	TSSOP-16
Product Type	Interface - Switches, Multiplexers, Demultiplexers
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ADG658YRUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADG658 and ADG659 are low voltage, CMOS analog multiplexers comprised of eight single channels and four differential channels, respectively. The ADG658 switches one of eight inputs (S1–S8) to a common output, D, as determined by the 3-bit binary address lines A0, A1, and A2. The ADG659 switches one of four differential inputs to a common differential output, as determined by the 2-bit binary address lines A0 and A1. An EN input on both devices enables or disables the device. When disabled, all channels are switched off.

These devices are designed on an enhanced process that provides lower power dissipation yet gives high switching speeds. These devices can operate equally well as either multiplexers or demultiplexers and have an input range that extends to the supplies. All channels exhibit break-before-make switching action, preventing momentary shorting when switching channels. All digital inputs have 0.8 V to 2.4 V logic thresholds, ensuring TTL/CMOS logic compatibility when using single +5 V or dual ±5 V supplies.

The ADG658 and ADG659 are available in 16-lead TSSOP/QSOP packages and 16-lead 4 mm × 4 mm LFCSP packages.

### Product Highlights

Single- and dual-supply operation. The ADG658 and ADG659 offer high performance and are fully specified and guaranteed with ±5 V, +5 V, and +3 V supply rails.

Automotive temperature range –40°C to +125°C.

Low power consumption, typically <0.1 μW.

16-lead 4 mm × 4 mm LFCSP packages, 16-lead TSSOP package and 16-lead QSOP package.

## Features

2 V to 12 V single supply

Automotive temperature range  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

45  $\Omega$  on resistance over full signal range

Rail-to-rail switching operation

Single 8-to-1 multiplexer

16-lead LFCSP/TSSOP/QSOP packages

Typical power consumption  $<0.1 \mu\text{W}$

TTL/CMOS compatible inputs

ADG658-EP supports defense and aerospace applications (AQEC standard)

[Download\(pdf\)](#)

Military temperature range:  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

Controlled manufacturing baseline

One assembly/test site

One fabrication site

Enhanced product change notification

V62/17613 DSCC Drawing Number

## Application

Automotive applications

Automatic test equipment

Data acquisition systems

Battery-powered systems

Communication systems

Audio and video signal routing

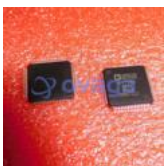
Relay replacement

Sample-and-hold systems

Industrial control systems



## Related Products



### [ADV7181CBSTZ](#)

Analog Devices, Inc  
LQFP-64



### [AD724JR](#)

Analog Devices, Inc  
SOIC-16



### [ADV7391WBCPZ](#)

Analog Devices, Inc  
LFSCP-3



### [AD8170AR](#)

Analog Devices, Inc  
SOP8



### [ADV7393BCPZ](#)

Analog Devices, Inc  
LFCSP-VQ-40



### [ADV7390BCPZ](#)

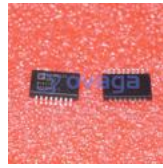
Analog Devices, Inc  
QFN32



[ADV7341BSTZ](#)

Analog Devices, Inc

LQFP-64



[ADUM4160BRIZ](#)

Analog Devices, Inc

SOIC-16