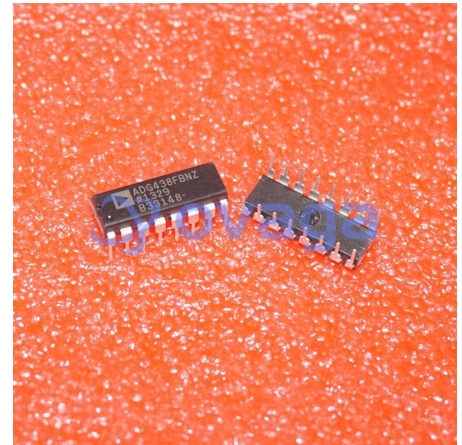


±15 V, Fault Protected, 8-Channel High Performance Analog Multiplexer; Package: PDIP;  
No of Pins: 16; Temperature Range: Industrial

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	DIP16
Product Type	Switches
RoHS	Green
Lifecycle	



Images are for reference only

Please submit RFQ for ADG438FBNZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADG438F switches one of eight inputs to a common output as determined by the 3-bit binary address lines, A0, A1, and A2. The ADG439F 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 each device is used to enable or disable the device. When disabled, all channels are switched off.

### Product Highlights

**Fault Protection.** The ADG438F and ADG439F can with-stand continuous voltage inputs up to -40 V or +55 V. When a fault occurs due to the power supplies being turned off, all the channels are turned off and only a leakage current of a few nanoamperes flows.

On channel saturates while fault exists.

Low RON.

Fast Switching Times.

**Break-Before-Make Switching.** Switches are guaranteed break-before-make so that input signals are protected against momentary shorting.

**Trench Isolation Eliminates Latch-Up.** A dielectric trench separates the p-channel and n-channel MOSFETs thereby preventing latch-up.

**Improved Off Isolation.** Trench isolation enhances the channel-to-channel isolation of the ADG438F/ADG439F.

## Features

All switches off with power supply off

Analog Output of ON Channel Clamped within Power Supplies If an Overvoltage Occurs

Latch-up proof construction

Fault and Overvoltage Protection (-40 V, + 55 V)

Fast switching times

tON 250 ns max

tOFF 150 ns max

Break-Before-Make Switching Action

TTL and CMOS Compatible inputs

## Application

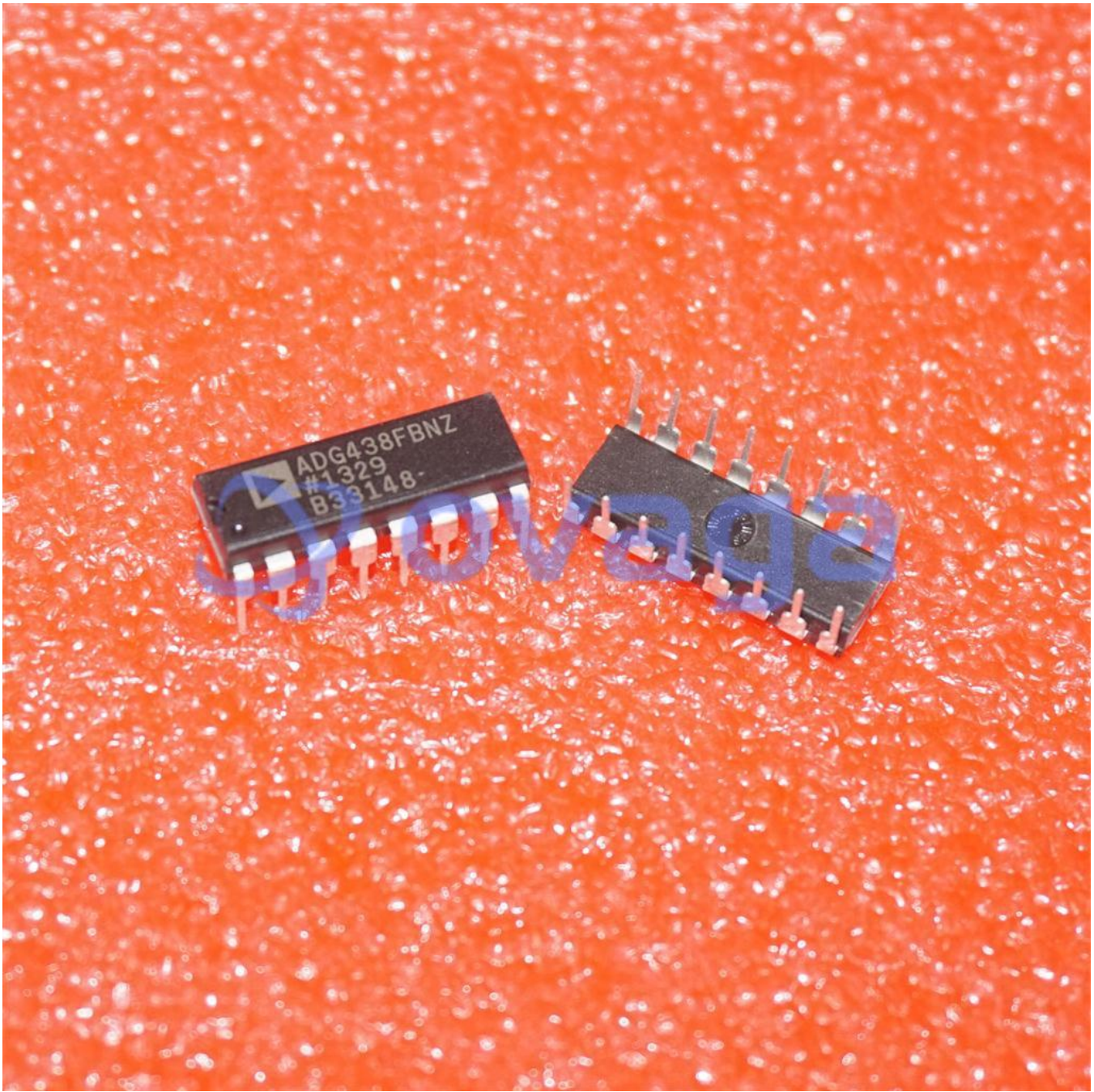
Data acquisition systems

Industrial and process control systems

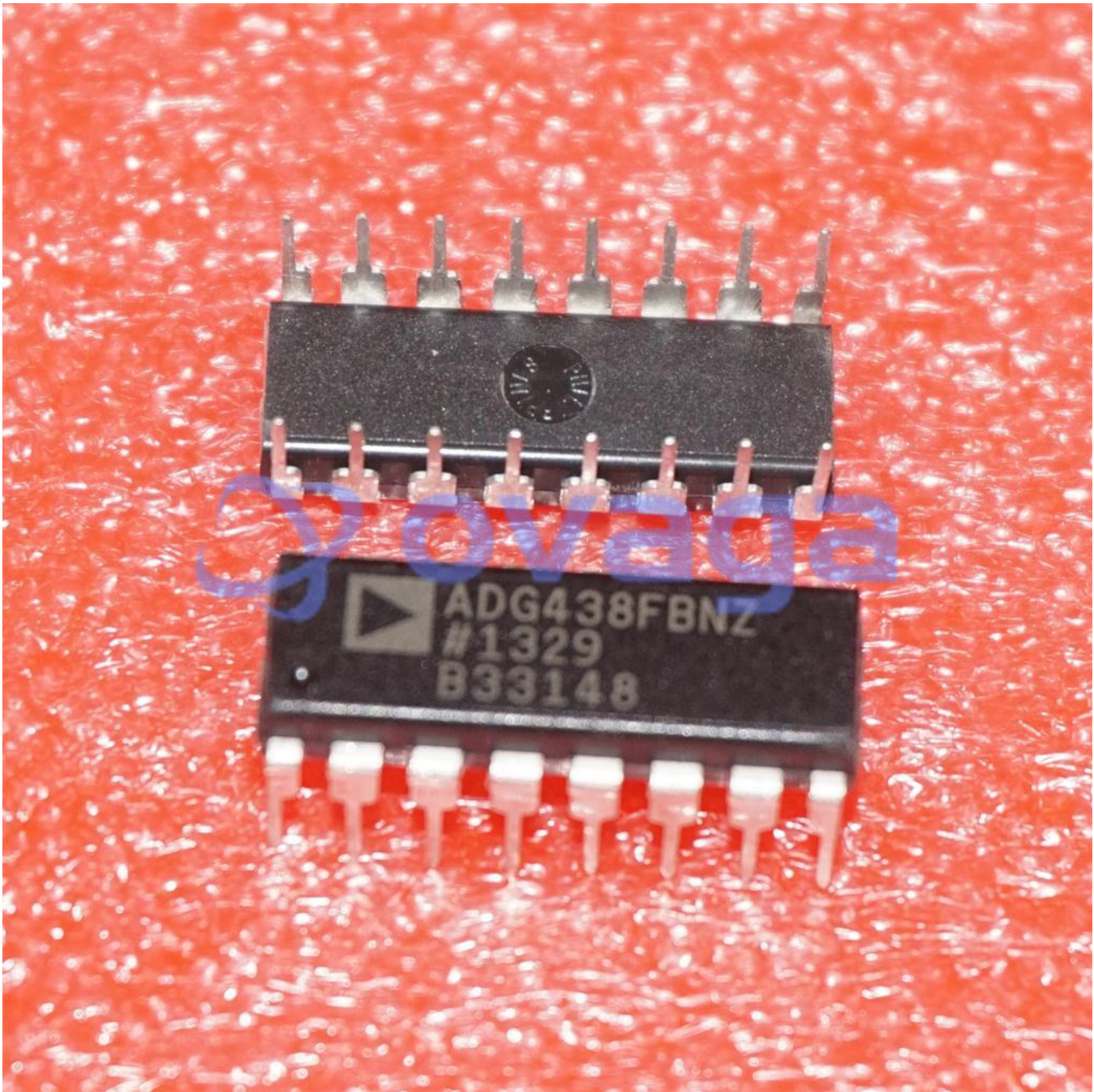
Avionics test equipment

Signal routing between systems

High reliability control systems







### Related Products



#### [ADG467BRSZ](#)

Analog Devices, Inc  
SSOP-20



#### [ADG201ABQ](#)

Analog Devices, Inc  
DIP-16



#### [ADP3050AR-3.3](#)

Analog Devices, Inc  
SOP-8



#### [ADG512BR](#)

Analog Devices, Inc  
SOP-16



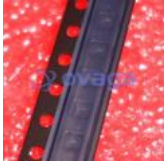
[ADG467BRSZ-REEL](#)

Analog Devices, Inc  
SSOP-20



[ADG888BCBZ-REEL7](#)

Analog Devices, Inc  
16 ball WLCSP



[ADG852BCPZ-REEL7](#)

Analog Devices, Inc  
LFCSP10



[ADG467BRZ](#)

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SOIC-18