

16 V, 250  $\mu$  A, Dual Precision, CMOS, Rail-to-Rail Output Operational Amplifier

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	MSOP-8
Product Type	Amplifier ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD8667ARMZ-REEL or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

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## General Description

The AD8663 / AD8667 / AD8669 are rail-to-rail output amplifiers that use the Analog Devices, Inc., patented DigiTrim® trimming technique to achieve low offset voltage. The AD8663 / AD8667 / AD8669 feature an extended operating range with supply voltages up to 16 V. They also feature low input bias current, low input offset voltage, and low current noise.

The combination of low offset, very low input bias current, and a wide supply range makes these amplifiers useful in a wide variety of applications usually associated with higher priced JFET amplifiers. Systems using high impedance sensors, such as photodiodes, benefit from the combination of low input bias current, low noise, low offset, and wide bandwidth.

The ability to operate the device for single (5 V to 16 V) or dual supplies ( $\pm 2.5$  V to  $\pm 8$  V) supports many applications. The rail-to-rail outputs provide increased dynamic range to drive low frequency data converters. The low bias current drift is well suited for precision I-to-V converters. The combination of precision offset, offset drift, and low noise also make the opamps ideal for gain, dc offset adjust, and active filter in both instrumentation and medical applications. These low power op amps can be used in IR thermometers, pH and ORP instruments, pressure transducer front ends, and other sensor signal conditioning circuits that are used in remote or wireless applications.

The AD8663 / AD8667 / AD8669 are specified over the extended industrial temperature range of  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ . The single AD8663 is available in a narrow 8-lead SOIC package and a very thin, 8-lead LFCSP. The dual AD8667 is available in a narrow 8-lead SOIC package and an 8-lead MSOP. The quad AD8669 is available in a 14-lead SOIC and 14-lead small TSSOP.

## Features

Low offset voltage: 175  $\mu\text{V}$  maximum at >

Low supply current: 275  $\mu\text{A}$  maximum per amplifier

Single-supply operation: 5 V to 16 V

Low noise: 23 nV/ $\sqrt{\text{Hz}}$

Low input bias current: 300 fA

Unity-gain stable

Package available: 8-lead MSOP and SOIC

## Application

Sensor front ends

Transimpedance amplifiers

Electrometer applications

Photodiode amplification

Low power ADC drivers

Medical diagnostic instruments

pH and ORP meters and probes

DAC or REF buffers



## Related Products



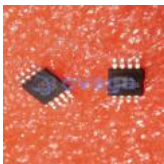
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