

16 V, 4 MHz Rail-to-Rail Output Amplifiers

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-8
Product Type	Amplifier ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD8666ARZ-REEL7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD866x family are single supply, rail-to-rail output amplifiers with low noise performance featuring an extended operating range with supply voltages up to 16 V. They also feature low input bias currents, wide signal bandwidth, and low input voltage and current noise. For lower offset voltage, choose the AD8661/AD8662/AD8664 family.

The combination of low offsets, very low input bias currents, and wide supply range make these amplifiers useful in a wide variety of cost sensitive applications normally associated with much higher priced JFET amplifiers. Systems using high impedance sensors, such as photo diodes, benefit from the combination of low input bias current, low noise, and low offset and bandwidth. The wide operating voltage range matches high performance ADCs and DACs. Audio applications and medical monitoring equipment can take advantage of the high input impedance, low voltage and current noise, wide bandwidth, and the lack of popcorn noise found in many other low input bias current amplifiers.

The AD866x family is specified over the extended industrial temperature range (−40° to +125°C). See the Ordering Guide for automotive models.

Applications

Sensor amplification

Reference buffers

Medical equipment

Physiological measurements

Signal filters and conditioning

Consumer audio

Photodiode amplification

ADC driver

Level shifting circuits

Features

Offset Voltage: 2.5 mV Max

Low Input Bias Current: 1 pA Max

Single-supply Operation: 5 V to 16 V

Dual-supply Operation: ± 2.5 V to ± 8 V

Low Noise: $8 \text{ nV}/\sqrt{\text{Hz}}$ @ 10 kHz

Wide Bandwidth: 4 MHz

Rail-to-rail Output

Unity Gain Stable

Lead-free Packaging

Qualified for automotive applications.

Application

Sensor amplification

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Medical equipment

Physiological measurements

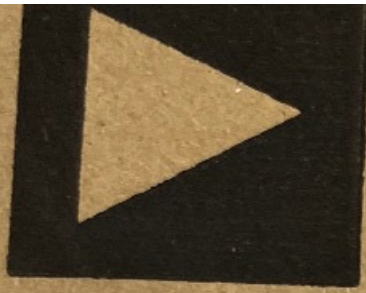
Signal filters and conditioning

Consumer audio

Photodiode amplification

ADC driver

Level shifting circuits



ANALOG DEVICES

COUNTRY OF ASSEMBLY: PHILIPPINES
COUNTRY OF DIFFUSION: IRELAND

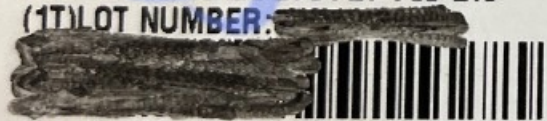
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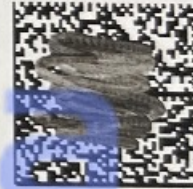
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(1T)LOT NUMBER:



(1P)MFG NO: AD8666ARZ - REEL7



MSL 1
PPBT = 260°C
e3 BOX 6 OF 10

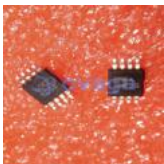


Related Products



[AD8418BRMZ-RL](#)

Analog Devices, Inc
MSOP-8



[ADA4084-2ARMZ](#)

Analog Devices, Inc
MSOP-8



[ADA4528-2ARMZ-R7](#)

Analog Devices, Inc
MSOP-8



[AD8062ARMZ](#)

Analog Devices, Inc
MSOP8



[AD8567ARUZ](#)

Analog Devices, Inc
TSSOP-14



[AD8628AUJZ](#)

Analog Devices, Inc
SOP23



[AD8022ARMZ](#)

Analog Devices, Inc
MSOP-8



[AD8041AR](#)

Analog Devices, Inc
SOP-8