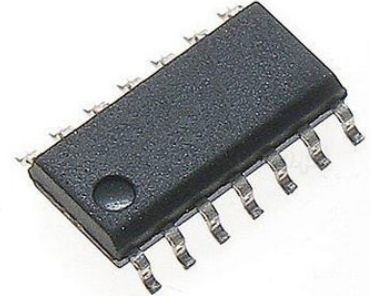


Operational Amplifier, Quad, 4 Amplifier, 2 MHz, 2 V/ $\mu$ s, 3V to 30V, SOIC, 14 Pins

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOP14
Product Type	Amplifier ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD824ARZ-14 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The AD824 is a quad, FET input, single supply amplifier, featuring rail-to-rail outputs. The combination of FET inputs and rail-to-rail outputs makes the AD824 useful in a wide variety of low voltage applications where low input current is a primary consideration.

The AD824 is guaranteed to operate from a 3 V single supply up to  $\pm 15$  volt dual supplies. AD824AR-3V parametric performance at 3 V is fully guaranteed.

Fabricated on ADI's complementary bipolar process, the AD824 has a unique input stage that allows the input voltage to safely extend beyond the negative supply and to the positive supply without any phase inversion or latch-up. The output voltage swings to within 15 mV of the supplies. Capacitive loads to 350 pF can be handled without oscillation.

The FET input combined with laser trimming provides an input that has extremely low bias currents with guaranteed offsets below 1 mV. This enables high accuracy designs even with high source impedances. Precision is combined with low noise, making the AD824 ideal for use in battery powered medical equipment.

Applications for the AD824 include portable medical equipment, photo diode preamplifiers, and high impedance transducer amplifiers.

The ability of the output to swing rail-to-rail enables designers to build multistage filters in single supply systems and maintain high signal-to-noise ratios.

The AD824 is specified over the extended industrial ( $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ ) temperature range and is available in narrow 14-lead SOIC package.

Applications  
Photo diode preamplifier

Battery powered instrumentation

Power supply control and protection

Medical instrumentation

Remote sensors

Low voltage strain gage amplifiers

DAC output amplifier

## Features

Single supply operation: 3 V to 30 V

Very low input bias current: 2 pA

Wide input voltage range

Rail-to-rail output swing

Low supply current per amplifier: 500  $\mu$ A

Wide bandwidth: 2 MHz

Slew rate: 2 V/ $\mu$ s

No phase reversal

## Application

Photo diode preamplifier

Battery powered instrumentation

Power supply control and protection

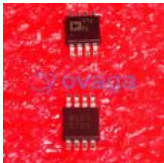
Medical instrumentation

Remote sensors

Low voltage strain gage amplifiers

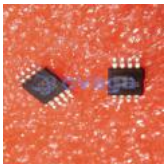
DAC output amplifier

## Related Products



[AD8418BRMZ-RL](#)

Analog Devices, Inc  
MSOP-8



[ADA4084-2ARMZ](#)

Analog Devices, Inc  
MSOP-8



[AD8567ARUZ](#)

Analog Devices, Inc  
TSSOP-14



[AD8022ARMZ](#)

Analog Devices, Inc  
MSOP-8



[ADA4528-2ARMZ-R7](#)

Analog Devices, Inc  
MSOP-8



[AD8062ARMZ](#)

Analog Devices, Inc  
MSOP8



[AD8628AUJZ](#)

Analog Devices, Inc  
SOP23



[AD8041AR](#)

Analog Devices, Inc  
SOP-8