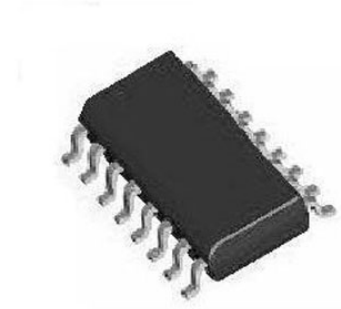


Quad 7 ns Single Supply Comparator; Package: SOIC; No of Pins: 16; Temperature Range: Industrial

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOIC-16
Product Type	Comparator ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD8564ARZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The AD8564 is a quad 7 ns comparator with separate input and output supplies, thus enabling the input stage to be operated from  $\pm 5$  V dual supplies or a 5 V single supply while maintaining a CMOS-/TTL-compatible output.

Fast 7 ns propagation delay makes the AD8564 a good choice for timing circuits and line receivers. Independent analog and digital supplies provide excellent protection from supply pin interaction. The AD8564 is pin compatible with the MAX901 and has lower supply currents.

All four comparators have similar propagation delays. The propagation delay for rising and falling signals is similar, and tracks over temperature and voltage. These characteristics make the AD8564 a good choice for high speed timing and data communications circuits. For a similar single comparator with latch function, refer to the AD8561 data sheet.

The AD8564 is specified over the industrial temperature range ( $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ ). The quad AD8564 is available in the 16-lead TSSOP, 16-lead narrow body SOIC, and 16-lead plastic DIP packages.

### Applications

High speed timing

Line receivers

Data communications

High speed V-to-F converters

Battery operated instrumentation

High speed sampling systems

Window comparators

PCMCIA cards

Upgrade for MAX901 designs

## Features

5 V single-supply operation

7 ns propagation delay

Low power

Separate input and output sections

TTL/CMOS logic-compatible outputs

Wide output swing

TSSOP, SOIC, and PDIP packages

## Application

High speed timing

Line receivers

Data communications

High speed V-to-F converters

Battery operated instrumentation

High speed sampling systems

Window comparators

PCMCIA cards

Upgrade for MAX901 designs

## Related Products



[ADCMP573BCPZ](#)

Analog Devices, Inc  
QFN



[AD96687BQ](#)

Analog Devices, Inc  
CDIP-16



[AD790SQ](#)

Analog Devices, Inc  
CDIP-8



[AD790JRZ](#)

Analog Devices, Inc  
SOIC-8



[AD9696KR](#)

Analog Devices, Inc  
SOP-8



[AD790JN](#)

Analog Devices, Inc  
PDIP-8



[AD9687BD](#)

Analog Devices, Inc  
DIP16



[AD9696TQ](#)

Analog Devices, Inc  
CDIP-8