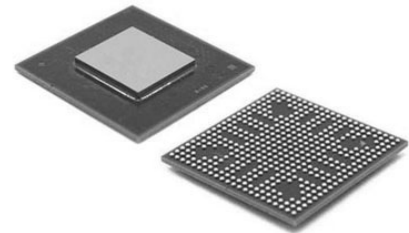


1-Channel Single ADC SAR 6MSPs 16-bit Serial 32-Pin LFCSP EP Tray

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	LFCSP-32
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD7625BCPZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The AD7625 is a 16-bit, 6 MSPS, charge redistribution successive approximation register (SAR) based architecture analog-to-digital converter (ADC). SAR architecture allows unmatched performance both in noise (93 dB SNR) and in linearity (1 LSB). The AD7625 contains a high speed, 16-bit sampling ADC, an internal conversion clock, and an internal buffered reference. On the CNV± rising edge, it samples the voltage difference between the IN+ and IN− pins. The voltages on these pins swing in opposite phase between 0 V and REF. The 4.096 V reference voltage, REF, can be generated internally or applied externally.

All converted results are available on a single LVDS self-clocked or echoed-clock serial interface, reducing external hardware connections.

The AD7625 is housed in a 32-lead, 5 mm × 5 mm LFCSP with operation specified from −40°C to +85°C.

## Features

Throughput: 6 MSPS

SNR: 93 dB

INL:  $\pm 0.45$  LSB typical,  $\pm 1$  LSB maximum

DNL:  $\pm 0.3$  LSB typical,  $\pm 0.5$  LSB maximum

Power dissipation: 135 mW

32-lead LFCSP (5 mm  $\times$  5 mm)

SAR architecture

No latency/no pipeline delay

16-bit resolution with no missing codes

Please see data sheet for additional features

## Application

High dynamic range telecommunications

Receivers

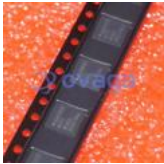
Digital imaging systems

High speed data acquisition

Spectrum analysis

Test equipment

## Related Products



### [ADAS3022BCPZ](#)

Analog Devices, Inc  
LFCSP-40



### [AD574AJNZ](#)

Analog Devices, Inc  
PDIP-28



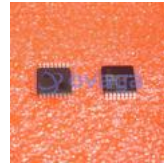
### [AD7938BSUZ](#)

Analog Devices, Inc  
TQFP-32



### [AD7124-8BCPZ-RL7](#)

Analog Devices, Inc  
LFCSP-32



### [AD7266BSUZ](#)

Analog Devices, Inc  
TQFP-32



### [AD7401YRWZ](#)

Analog Devices, Inc  
SOIC-16



### [AD7192BRUZ-REEL](#)

Analog Devices, Inc  
TSSOP-24



### [AD9680BCPZ-500](#)

Analog Devices, Inc  
LFCSP-64