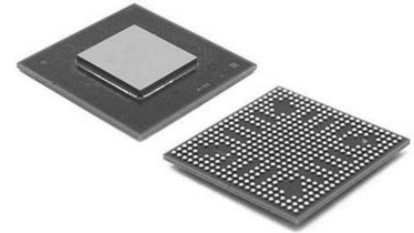


Analogue to Digital Converter, 16 bit, 20 MSPS, Differential, Single Ended, SPI, Single, 1.7 V

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 AD9266BCPZ-20 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The AD9266 is a monolithic, single-channel 1.8 V supply, 16-bit, 20 MSPS/40 MSPS/65 MSPS/80 MSPS analog-to-digital converter (ADC). It features a high performance sample-and-hold circuit and on-chip voltage reference.

The product uses multistage differential pipeline architecture with output error correction logic to provide 16-bit accuracy at 80 MSPS data rates and to guarantee no missing codes over the full operating temperature range.

The ADC contains several features designed to maximize flexibility and minimize system cost, such as programmable clock and data alignment and programmable digital test pattern generation. The available digital test patterns include built-in deterministic and pseudorandom patterns, along with custom user-defined test patterns entered via the serial port interface (SPI).

A differential clock input with a selectable internal 1-to-8 divider ratio controls all internal conversion cycles. An optional duty cycle stabilizer (DCS) compensates for wide variations in the clock duty cycle while maintaining excellent overall ADC performance.

The interleaved digital output data is presented in offset binary, gray code, or two's complement format. A DCO is provided to ensure proper latch timing with receiving logic. Both 1.8 V and 3.3 V CMOS levels are supported.

The AD9266 is available in a 32-lead RoHS-compliant LFCSP and is specified over the industrial temperature range (-40°C to +85°C).

### Product Highlights

#### Applications

The AD9266 operates from a single 1.8 V analog power supply and features a separate digital output driver supply to accommodate 1.8 V to 3.3 V logic families.

The sample-and-hold circuit maintains excellent performance for input frequencies up to 200 MHz and is designed for low cost, low power, and ease of use.

A standard serial port interface supports various product features and functions, such as data output formatting, internal clock divider, power-

down, DCO and data output(D15\_D14 to D1\_D0) timing and offset adjustments, and voltage reference modes.

The AD9266 is packaged in a 32-lead RoHS-compliant LFCSP that is pin compatible with the AD9609 10-bit ADC, the AD9629 12-bit ADC, and the AD9649 14-bit ADC, enabling a simple migration path between 10-bit and 16-bit converters sampling from 20 MSPS to 80 MSPS.

## Features

1.8 V analog supply operation

1.8 V to 3.3 V output supply

SNR

77.6 dBFS at 9.7 MHz input

71.1 dBFS at 200 MHz input

SFDR

93 dBc at 9.7 MHz input

80 dBc at 200 MHz input

Low power

56 mW at 20 MSPS

113 mW at 80 MSPS

Differential input with 700 MHz bandwidth

See data sheet for additional features

77.6 dBFS at 9.7 MHz input

71.1 dBFS at 200 MHz input

93 dBc at 9.7 MHz input

80 dBc at 200 MHz input

56 mW at 20 MSPS

113 mW at 80 MSPS

Download the AD9266-EP data sheet (pdf)

Military temperature range ( $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ )

Controlled manufacturing baseline

Enhanced product change notification

Qualification data available on request

V62/12660 DSCC Drawing Number

## Application

Communications

Diversity radio systems

Multimode digital receivers

GSM, EDGE, W-CDMA, LTE, CDMA2000, WiMAX, TD-SCDMA

Smart antenna systems

Battery-powered instruments

Handheld scope meters

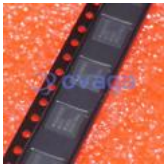
Portable medical imaging

Ultrasound

Radar/LIDAR

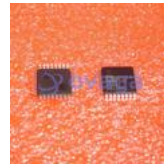
PET/SPECT imaging

## Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc  
LFCSP-40



[AD7266BSUZ](#)

Analog Devices, Inc  
TQFP-32



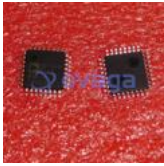
[AD574AJNZ](#)

Analog Devices, Inc  
PDIP-28



[AD7401YRWZ](#)

Analog Devices, Inc  
SOIC-16



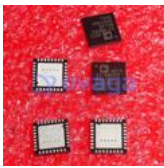
[AD7938BSUZ](#)

Analog Devices, Inc  
TQFP-32



[AD7192BRUZ-REEL](#)

Analog Devices, Inc  
TSSOP-24



[AD7124-8BCPZ-RL7](#)

Analog Devices, Inc  
LFCSP-32



[AD9680BCPZ-500](#)

Analog Devices, Inc  
LFCSP-64