

AD9625BBPZ-2.5

FUNCTIONAL BLOCK DIAGRAM

DRVDD DRGN

AVDD AGND

Data Sheet



Manufacturers	Analog Devices, Inc.	
Package/Case	BGA-196	RBIAS_EXT
Product Type	Data Conversion ICs	
		SDIO SCIK CSB
RoHS	Pb-free Halide free	Figure 1.
		Images are for reference only
Lifecycle		
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Please submit RFQ for AD9625BBPZ-2.5 or Email to us: sales@ovaga.com We will contact you in 12 hours.

<u>RFO</u>

General Description

The AD9625 is a 12-bit monolithic sampling analog-to-digital converter (ADC) that operates at conversion rates of up to 2.6 giga samples per second (GSPS). This product is designed for sampling wide bandwidth analog signals up to the second Nyquist zone. The combination of wide input bandwidth, high sampling rate, and excellent linearity of the AD9625 is ideally suited for spectrum analyzers, data acquisition systems, and a wide assortment of military electronics applications, such as radar and jamming/antijamming measures.

The analog input, clock, and SYSREF \pm signals are differential inputs. The JESD204B-based high speed serialized output is configurable in a variety of one-, two-, four-, six-, or eight-lane configurations. The product is specified over the industrial temperature range of -40° C to $+85^{\circ}$ C.

PRODUCT HIGHLIGHTS

APPLICATIONS

High performance: exceptional SFDR in high sample rate applications, direct RF sampling, and on-chip reference.

Flexible digital data output formats based on the JESD204B specification.

Control path SPI interface port that supports various product features and functions, such as data formatting, gain, and offset calibration values.

Features

12-bit 2.5 GSPS ADC, no missing codes

Noise spectra⊳

Differential analog input: 1.2 V

P-P

Differential clock input

3.2 GHz analog input bandwidth, full power

High speed 6- or 8-lane JESD204B serial output Subclass 1:6.50 Gbps at 2.6 GSPS

Two independent decimate by 8 or decimate by 16 filters with 10-bit NCOs

Supply voltages: 1.3 V, 2.5 V

Flexible digital output modes

Built-in selectable digital test patterns

Timestamp feature

- Conversion error rate < 10
- Flexible digital output modes

Built-in selectable digital test patterns

Application

Spectrum analyzers

Military communications

Radar

High performance digital storage oscilloscopes

Active jamming/antijamming

Electronic surveillance and countermeasures



Related Products



ADAS3022BCPZ

Analog Devices, Inc

LFCSP-40



AD7266BSUZ

118 14 001

Analog Devices, Inc TQPF-32



AD574AJNZ

Analog Devices, Inc PDIP-28



AD7401YRWZ

Analog Devices, Inc SOIC-16



AD7938BSUZ Analog Devices, Inc

TQFP-32



AD7124-8BCPZ-RL7

Analog Devices, Inc LFCSP-32





AD7192BRUZ-REEL

Analog Devices, Inc TSSOP-24

AD9680BCPZ-500

Analog Devices, Inc LFCSP-64