

## 2.6-GHz A/D Converter in High-Reliability Package Meets Specific Sample Rate and Dynamic Range Requirements of Aerospace/Defense Applications

NORWOOD, Mass.--(BUSINESS WIRE)-- [Analog Devices, Inc.](http://www.analog.com) today introduced a 2.6-GHz A/D converter engineered to address the high-bandwidth and dynamic-range needs of aerospace and defense applications. Combining giga-sample-rate speed and 75-dBc spurious-free, dynamic-range (SFDR) performance out to 1.8 GHz  $A_{in}$ , the AD9625BBP-2.6 12-bit A/D converter is fully optimized to match the frequency planning and signal sensitivity requirements of advanced electronic surveillance and counter-measure applications, such as radar systems, secure communications networks and electronic signals monitoring. The new converter is available in a tin-lead (SnPb) package that ensures high-reliability operation by eliminating the performance degradation and added cost associated with alternative packaging materials that are susceptible to tin-whiskering.

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The AD9625BBP-2.6 A/D converter is the latest addition to ADI's wideband RF signal processing solutions portfolio, which provides key high-reliability aerospace and defense applications with previously unavailable dynamic performance and packaging options for better signal extraction in noisy RF environments over a wider bandwidth than ever before.

- View product page, download data sheets, order samples and evaluation boards: <http://www.analog.com/AD9625>
- Get questions answered by ADI engineers on EngineerZone®, ADI's online technical support community: [http://ez.analog.com/community/data\\_converters/high-speed\\_adcs](http://ez.analog.com/community/data_converters/high-speed_adcs)

### AD9625BBP-2.6 12-bit 2.6-GHz A/D Converter Features

The AD9625BBP-2.6 provides a 150-dBFS/Hz noise floor and 75-dBc SFDR out to 1.8 GHz  $A_{in}$ . This level of performance means designers can discern by four times smaller signals in the presence of noise, clutter, blockers and interferers. The new converter is designed for sampling wide bandwidth analog signals and can be used up into its third Nyquist zone. Its wider input bandwidth enables advanced RF sampling architectures that reduce the number of analog frequency down-conversion stages and their associated noise and cost contributions. The simplified system architecture eliminates the need to interleave multiple A/D converters to obtain needed performance and allows for the development of reconfigurable platforms.

The AD9625BBP-2.6 simplifies the digital interfacing challenge by integrating two digital-down converters, two numerically controlled oscillators and a configurable JESD204B serial link for the output data. These features improve usability and functionality by reducing output-data-rate requirements and simplifying board-level design and layout.

Additionally, the converter's high-reliability SnPb package is better suited to demanding aerospace and defense applications by eliminating tin-whiskering concerns. This removes the costly and time-consuming process of package re-plating, re-balling and PCB conformal recoating - steps that often are required by other, less robust packaging materials and that can void the manufacturers' warranty.

### Pricing and Availability

Product	Availability	Price Each Per 1K	Packaging
AD9625BBP-2.6	NOW	\$837.42	12mm x12mm SnPb High-Reliability 196-ball BGA
AD9625BBPRL-2.6	NOW	\$837.42	12mm x12mm SnPb High-Reliability 196-ball BGA
AD9625-2.6EB	NOW	\$1,440 Each	Evaluation Board

### About Analog Devices

Analog Devices (NASDAQ: ADI) designs and manufactures semiconductor products and solutions. We enable our customers to interpret the world around us by intelligently bridging the physical and digital with unmatched technologies that sense, measure and connect. Visit <http://www.analog.com>

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