

PRODUCT RELEASE



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Richardson RFPD Introduces New 16-Channel, 14-Bit, 65 MSPS ADC from ADI

Designed for low cost, low power, small size, and ease of use

January 28, 2014 – LaFox, Illinois: Richardson RFPD, Inc. today announces immediate availability and full design support capabilities for a new analog-to-digital converter (ADC) from Analog Devices, Inc. (ADI).

The [AD9249](#) is a 16-channel, 14-bit ADC with an on-chip sample-and-hold circuit designed for low cost, low power, small size, and ease of use. The device operates at a conversion rate of up to 65 MSPS and is optimized for outstanding dynamic performance and low power in applications where a small package size is critical. The AD9249 requires a single 1.8 V power supply and an LVPECL-/ CMOS-/LVDS-compatible sample rate clock for full performance operation. No external reference or driver components are required for many applications.

The AD9249 automatically multiplies the sample rate clock for the appropriate LVDS serial data rate. Data clock outputs (DCO±1, DCO±2) for capturing data on the output, and frame clock outputs (FCO±1, FCO±2) for signaling a new output byte, are provided. Individual channel power-down is supported, and the device typically consumes less than 2 mW when all channels are disabled.

The new ADC contains several features designed to maximize flexibility and minimize system cost, such as a programmable clock, data alignment, and digital test pattern generation. It is ideally-suited for medical imaging, communications receivers, and multichannel data acquisition applications.

Additional key features of the [AD9249](#) include:

- Low power:
 - 16 ADC channels integrated into 1 package
 - 58 mW per channel at 65 MSPS with scalable power options
 - 35 mW per channel at 20 MSPS
- SNR: 75 dBFS (to Nyquist); SFDR: 90 dBc (to Nyquist)
- DNL: ±0.6 LSB (typical); INL: ±0.9 LSB (typical)
- Crosstalk, worst adjacent channel, 10 MHz, -1 dBFS: -90 dB typical
- Serial LVDS (ANSI-644, default)
 - Low power, reduced signal option (similar to IEEE 1596.3)
- 650 MHz full power analog bandwidth
- 2 V p-p input voltage range
- Serial port control

The [AD9249](#) is part of [ADI's Select Products for Q1, 2014](#).

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Richardson RFPD's design advisors provide extensive technical expertise and design-in assistance for ADI products, including this new ADC. To find more information, or to purchase the device today on the Richardson RFPD website, please visit the [ADI Select Products for Q1](#) webpage. The device is also available by calling 1-800-737-6937 (within North America); or please find your local sales engineer (worldwide) at [Local Sales Support](#). To learn about additional products from ADI, please visit the [ADI storefront](#) webpage.



About Richardson RFPD, Inc.:

Richardson RFPD, Inc., an Arrow Electronics company, is a global leader in the RF and wireless communications, power conversion and renewable energy markets. Relationships with the industry's top component suppliers enable Richardson RFPD to meet the total engineering needs of each customer. Whether it's designing components or engineering complete solutions, Richardson RFPD's worldwide design centers and technical sales team provide support for all aspects of customers' go-to-market strategy, from prototype to production. More information is available online at www.richardsonrfpd.com.

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