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Analog Devices' D/A Converter Improves Television Viewing Experience

NORWOOD, Mass.--(BUSINESS WIRE)-- [Analog Devices, Inc.](http://www.analog.com) (ADI) today introduced a D/A converter that brings the future of television to today's home viewers, enabling them to enjoy ultra-high-definition (UHD) and 4K television across more channels at unprecedented streaming and download speeds. The new AD9162 D/A converter represents a breakthrough for the industry because it provides broadband and wireless service operators with the industry's highest bandwidth and dynamic range to satisfy rising consumer demand for higher quality, always-on data and video streaming without requiring expensive, large-scale architecture or converter design changes.

This Smart News Release features multimedia. View the full release here:

<http://www.businesswire.com/news/home/20160711005005/en/>



- View product page, download data sheet, order samples and evaluation boards:

<http://www.analog.com/AD9162>

- Learn about Analog Devices' D/A converter product portfolio:

<http://www.analog.com/en/products/digital-to-analog-converters/da-converters.html>

- Connect with engineers and ADI product experts on EngineerZone®, an online technical support community:

Analog Devices' D/A Converter Improves Television Viewing Experience (Photo: Business Wire)

https://ez.analog.com/community/data_converters/high-speed_dacs

The 16-bit, 12-GSPS AD9162 converter's best-in-class 2.5-GHz bandwidth exceeds the 1.794-GHz optional future requirement specified by the cable industry's DOCSIS 3.1 standard by nearly 40 percent. The wider bandwidth affords cable operators the ability to plan next-generation network upgrades and capacity expansions without changing converter designs, which reduces product development time and engineering resources.

The AD9162 converter's industry-best dynamic range (-82-dBc SFDR at -167-dBm/Hz NSD) allows designers to synthesize signals across a wide frequency spectrum from direct-to-RF up to 6 GHz. In wireless applications, this eliminates an IF-to-RF up-conversion stage and local oscillator generation, reducing base station component count, size and power consumption. The AD9162 supports all wireless communications infrastructure protocols (WCDMA, LTE, LTE-A, point-to-point), enabling advanced multiband and multi-standard radio designs.

Additional Features and Benefits

The AD9162 converter features a 2x interpolator (FIR85) that enables configurations for lower data rates and converter clocking to reduce overall system power and ease filtering requirements. In mix-mode operation, the RF D/A converters can be configured to reconstruct RF carriers in the 2nd and 3rd Nyquist zones up to 7.5 GHz while maintaining exceptional dynamic range.

Product Specifications

Product	DDS Frequency Hopping	Update Rate	Direct RF Synthesis	Baseband Mode	Normal Mode	Mix-Mode
AD9162	NA	12 GSPS	6 GSPS	DC to 2.5 GHz	DC to 6 GHz	1.5 to 7.5 GHz

Pricing and Availability

Product	Sample Availability	Full Production	Price Each Per 1,000	Packaging
AD9162	Now	Now	\$150	8 mm x 8 mm CSP-BGA 11 mm x 11 mm CSP-BGA

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 worlds with unmatched technologies that sense, measure and connect.

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