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## Rapid Prototyping Kit Simplifies Wide-Dynamic-Range GSPS Data Converter-to-FPGA Connectivity

*Kit contains hardware and software to rapidly move from prototype to production with FPGA platforms including Xilinx® UltraScale™ and Zynq*

NORWOOD, Mass.--(BUSINESS WIRE)-- [Analog Devices, Inc.](http://www.analog.com) (ADI: NASDAQ) unveiled a rapid prototyping kit today that simplifies wide-dynamic-range GSPS data converter-to-FPGA (field-programmable gate arrays) connectivity. Digital and analog designers can use the [AD-FMCDQA2-EBZ](http://www.analog.com) Rapid Prototyping Kit to quickly prototype the high-speed JEDEC JESD204B SerDes (serializer/de-serializer) GSPS data converter-to-FPGA interface on major FPGA platforms, including Xilinx's UltraScale FPGA and Zynq All Programmable SoC devices for radar, instrumentation, wireless radio and other data acquisition applications. Watch this video about AD-FMCDQA2-EBZ rapid prototyping kits: <http://videos.analog.com/video/products/3726581576001/AD-FMCDQA2-EBZ-Wideband-RF-DAQ-Rapid-Prototyping-FMC-Module/>

"The AD-FMCDQA2-EBZ FMC module offers Xilinx customers up to 2 GHz of usable analog bandwidth with a JESD204B interface for rapidly prototyping a variety of wideband RF applications that demand the high DSP performance available in Xilinx UltraScale FPGAs and Zynq All Programmable SoC devices," said Tom Hill, senior manager, DSP Solutions at Xilinx. "For this reason, Xilinx selected this module for our upcoming Kintex UltraScale DSP kit."

The AD-FMCDQA2-EBZ is a prototyping system in an FMC form factor for verifying hardware and processing algorithms and rapidly moving from prototype to production in order to reduce the time and risk associated with designing wideband RF signal processing systems. Its performance, bandwidth and integrated functionality allow designers to achieve better signal acquisition in congested RF environments over a wider bandwidth than ever before with the industry's best dynamic range and noise performance.

The AD-FMCDQA2-EBZ provides tested reference designs including ultra-high-speed data converters, driver amplifiers, clocks and power management ICs. Also included are HDL (hardware description language) code, device drivers, an eye analyzer tool and online support at ADI's EngineerZone™ online technical support community.

- Learn more about the AD-FMCDQA2-EBZ Rapid Prototyping Kit and order: [www.analog.com/AD-FMCDQA2-EBZ](http://www.analog.com/AD-FMCDQA2-EBZ)
- Download rapid prototyping software:

[http://wiki.analog.com/resources/eval/user-guides/ad-fmcdqa2-ebz/hardware/functional\\_overview](http://wiki.analog.com/resources/eval/user-guides/ad-fmcdqa2-ebz/hardware/functional_overview)

- Download schematics, assembly and build files: <http://wiki.analog.com/resources/eval/user-guides/ad-fmcdqa2-ebz/hardware>
- Read the AD-FMCDQA2-EBZ User Guide: <http://wiki.analog.com/resources/eval/user-guides/ad-fmcdqa2-ebz>
- Get questions answered by ADI engineers on EngineerZone™, ADI's online technical support community: <http://ez.analog.com/community/fpga>

### About the AD-FMCDQA2-EBZ Rapid Prototyping Kit

The AD-FMCDQA2-EBZ Rapid Prototyping Kit includes an on-board AD9680 dual-channel, 14-bit, 1-GSPS, A/D converter. When converting a 1-GHz input, the A/D converter achieves spurious-free dynamic range (SFDR) performance of 80 dBc and 61.4-dBFS signal-to-noise ratio (SNR) while consuming 1.65 W of total power per channel.

The D/A converter in the kit is the 4-channel, 16-bit, 2.8-GSPS, AD9144, of which two channels are accessed on the board. It features 82-dBc SFDR and a maximum sample rate of 2.8 GSPS, permitting multicarrier generation up to the Nyquist frequency.

The AD9523-1 low-jitter clock generator provides a low-power, multi-output, clock distribution function with low jitter performance, along with an on-chip PLL and VCO with two VCO dividers.

## Pricing and Availability

Product	Availability	Price
AD-FMCDAQ2-EBZ Rapid Prototyping Kit	NOW	\$1495

## About Analog Devices

Innovation, performance, and excellence are the cultural pillars on which Analog Devices has built one of the longest standing, highest growth companies within the technology sector. Acknowledged industry-wide as the world leader in data conversion and signal conditioning technology, Analog Devices serves over 100,000 customers, representing virtually all types of electronic equipment. Analog Devices is headquartered in Norwood, Massachusetts, with design and manufacturing facilities throughout the world. Analog Devices is included in the S&P 500 Index.

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