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## ANALOG DEVICES' FMC BOARDS SUPPORT XILINX'S FPGA TARGETED DESIGN PLATFORMS TO HELP DESIGNERS REDUCE DEVELOPMENT TIME

ADI's A/D and D/A converter FPGA mezzanine cards include all HDL code and device drivers for easy integration with multiple generations of Xilinx FPGAs.

Norwood, MA (01/31/2012) - Analog Devices, Inc. (ADI), the leading provider of data conversion technology\*, today introduced two data converter FMC boards (FPGA mezzanine cards) that connect to Xilinx Inc.'s new 28nm 7 series FPGA (field programmable gate array) evaluation kits. ADI's high-speed AD9739A D/A converter and AD9467 A/D converter FMC boards support multiple generations of Xilinx kits -- including the company's new Kintex-7 FPGA evaluation kits Xilinx announced today. The new Analog Devices FMC boards include all of the HDL (hardware description language) code and device drivers needed for designers to engage in rapid prototyping and reduce development time and risk. Both products are being demonstrated at the DesignCon 2012 trade show in Santa Clara, Calif., in the Xilinx booth (#732).

"The availability of low cost commercial off the shelf hardware, such as the AD9739A FMC board, and the new Kintex-7 development boards, allows our customers to quickly prototype and evaluate many of the IP Cores which we offer," said Jean-Claude Basset, technical director/manager, MVD Cores\*\*, a Certified Member of the Xilinx Alliance Program. "We have verified our digital RF up converter IP cores with the AD9739A FMC board and Xilinx's Virtex-6, Kintex-7 and Spartan-6 boards and recommend that our customers use this hardware to evaluate our IP Cores."

- For information about ADI's FMC boards: <http://www.analog.com/Xilinx>
- To order ADI's FMC boards\*\*\*:
  - AD9739A FMC: <http://www.digilentinc.com/AD9739A-FMC>
  - AD9467 FMC: <http://www.digilentinc.com/AD9467-FMC>
- Get support at ADI's EngineerZone™ online technical support community: <http://ez.analog.com/community/fpga>
- To learn more about ADI's data conversion technology: <http://www.analog.com/en/data-converters/products/index.html>

"ADI's new FMC boards, integration software and industry-leading data conversion expertise help engineers designing with Xilinx's Kintex-7 series FPGAs to move more quickly through system prototyping and get their products to market faster," said Dave Babicz, director of Global Alliances, Analog Devices. "At the same time, our new boards are backward compatible with other Xilinx FPGAs, which means that engineers will be able to design products that meet a range of performance criteria using a simplified design environment."

"Xilinx's Targeted Design Platforms accelerate system development and integration by providing the industry's most comprehensive development kits, which include boards, tools, IP cores, reference designs and FMC support," said Raj Seelam, senior marketing manager, Targeted Design Platforms, Xilinx. "Our adoption and support for open standards such as FMC and the AMBA®4 AXI IP core interface strengthens the ability of Xilinx Alliance Program members like Analog Devices to deliver key technologies that make it easier for FPGA users to complete their projects."

### More About ADI's AD9739A D/A Converter FMC Board

ADI's AD9739A FMC board is based on the AD9739A, a 14-bit D/A converter that enables cable television and broadband operators to synthesize the entire cable spectrum up to 1 GHz into a single RF (radio frequency) port, while consuming a maximum of 1.1 W of power. The AD9739A 14-bit, 2.5-GSPS D/A converter's wide bandwidth and dynamic range enable cable operators to increase the QAM (quadrature amplitude modulation) channel densities by 20 times over the densities found in today's cable modems. Competing D/A converter solutions require an additional 28 LVDS (low-voltage differential signaling) pairs for the data interface.

### More About ADI's AD9467 A/D Converter FMC Board

ADI's AD9467 FMC board is based on the AD9467, which is a 16-bit, 250-MSPS A/D converter that operates on 35 percent less power at a 25 percent higher sampling rate than any other 16-bit data converter. The AD9467 provides a new level of signal processing performance for test and measurement instrumentation, defense electronics and communications applications where high resolution over a wide bandwidth is needed.

The AD9467 delivers resolution and a fast sample rate while simultaneously achieving a high SFDR (spurious-free dynamic range) of up to 100 dBFS and SNR (signal-to-noise ratio) performance of 76.4 dBFS. The device's SFDR of 90 dBFS up to 300 MHz analog input and 60-



femtosecond rms (root mean square) jitter help lower the signal chain bill of materials component count by allowing engineers to increase system performance at higher intermediate frequencies, thereby reducing the number of signal down-conversion stages.

#### Availability and Pricing

Product	Availability	Price
AD9739A FMC board with 14-bit D/A converter	Now	\$349
AD9467 FMC board with 16-bit A/D converter	March 2012	<a href="#">Contact Digilent Inc.</a>

#### 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 60,000 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' common stock is listed on the New York Stock Exchange under the ticker "ADI" and is included in the S&P 500 Index.

\*Analog Devices, Inc. leads the worldwide data converter market with a 46 percent share, according to industry analyst firm [Databeans, Inc.](#) in its market research report titled "2011 Data Converters." Analog Devices' 46 percent share is larger than the combined market share of the nearest eight competitors.

\*\* MVD Cores is an engineering team highly specialized in Digital Video Broadcasting (DVB) and FPGA technologies. They provide IP cores for Processing, Transporting and Transmission of MPEG, DVB and ATSC standards for Xilinx FPGAs. Their products and services catalog contains a wide range of on-the-shelf IPs to build solutions to carry MPEG-TS to RF.

\*\*\* Digilent Inc. is a leader in the design, manufacture, and world wide distribution of FPGA and microcontroller technologies. Digilent is a third-party board supplier for Analog Devices and Xilinx.

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