

NEWS – *For immediate release*

Ultraview Announces AD8-3000 High Speed Data Acquisition (DAQ) Board with Deep Memory

New Dual 3GSPS PCIe ADC Board with 8GB RAM, Virtex-5™ FPGA allows Reconfigurable Signal Processing and Ultra-deep Recording

Orinda, Ca., 11/13/08. Ultraview Corporation, a leader in fast data acquisition boards, today has announced an ultra-fast PCIe data acquisition board series allowing uninterrupted acquisition of two concurrent 3 GSPS 8-bit A/D channels. The board's unique combination of speed, reconfigurable processing, and very deep on-board memory enable new data acquisition capabilities in SIGINT, surveillance, missile testing, RADAR and other defense, scientific, and medical applications. When installed in any x16 PCIe slot, the AD8-3000 can acquire data at an aggregate rate up to 6 GB/sec, optionally process it in the on-board Virtex-5™ FPGA, buffer it in the 8GB on-board DDR-II RAM, and continuously stream the data via 1.4GB/sec PCIe x8 DMA transfers to host system RAM, for immediate use, graphical display, or storage to disk. A selective recording feature allows acquisition to be dynamically stopped and started in response to a TTL input, increasing effective memory depth by storing only the needed data, for RADAR, burst communication, pulsed-spectroscopy and other applications.

Rapid Development and OEM-customization using easily modifiable, C-Software/VHDL-Firmware packages included with board

Designed for high speed, low-jitter, operation in critical OEM applications, the AD8-3000 allows either straight data acquisition, requiring no user development, or in-line FPGA dataflow processing using the on-board Xilinx Virtex-5™ (XC5VLX50T™ or optionally any 1136-pin Virtex-5™ up to XC5VLX155T™).

For use as a standard data acquisition board the supplied user software and device driver allow users to acquire and view data with only a few minutes required to setup the board. Drivers, user software, and example user source code are supplied for both 64-bit Linux and 32-bit Windows Vista™/XP™. Graphical waveform display software, and routines to store data to disk are included with all boards, in C-language source and ready-to-run executable form.

The AD8-3000's host-uploadable firmware feature lets users reconfigure the on-board FPGA through the host system's PCIe bus, without a programming cable. This allows users to quickly, and even remotely, modify the board's supplied standard data acquisition VHDL firmware to perform advanced application-specific hardware signal processing, including filtering, sub-band tuning, averaging, spectroscopy, SDR and image processing. This modular VHDL firmware source is available to OEM users.

Modular Front-end Mezzanines enable Complete Receivers or Instruments to be constructed on a single PCIe board.

For OEM applications, user/Ultraview-designed front-end mezzanines may be attached to the board, including higher resolution A/D and D/A converters, filters, amplifiers, and mixers. Ultraview President Dr. Joel Libove added “The AD8-3000 is designed to address requirements for the highest performance data acquisition systems. It is an effective standalone system-on-a-board that will also be used as a component in systems configured by other manufacturers. Ultraview will OEM the product to manufacturers who may use the on board FPGA capabilities and optional OEM front-end mezzanines to customize for specific applications.”

Enables Ultra-fast Multi-board Multichannel Data Acquisition Systems

Multiple, concurrently triggered, AD8-3000 boards may be ganged, to acquire multiple channels in lock step. For example, with four AD8-3000x2-8GBs and an AD8-SPLIT4 clock/trigger splitter, 8 A/D channels can be acquired concurrently at 3GSPS each, for a 24GSPS aggregate rate, with 4GB of acquisition depth on each channel. The 8GB dedicated RAM on each AD8-3000 allows ultra-fast single shot capture without requirements on host system bus throughput.

The AD8-3000 supports external clocks of 500MHz-1500MHz (sampling rates of 1 to 3GSPS), and also has a 2GSPS internal clock (other frequencies available).

Pricing in quantity of 2-9 boards is \$9895 for AD8-3000x1-4GB (1-channel board with 4GB RAM) and \$ 11,695 for AD8-3000x2-4GB (2-channel board with 4GB RAM). The AD8-3000x2 (2-channel board with 8GB RAM is \$12,195).



Additional screen shots are at www.ultraviewcorp.com/images/ad83000

About Ultraview Corporation

Ultraview, founded in 1987, manufactures a wide range of high performance OEM and COTS 8, 12, 14 and 16-bit PCIe and PCI data acquisition boards, PCIe and PCI bus live-insertion extender boards and analysis tools. These products are used in a wide variety of applications in defense, communications, scientific and OEM manufacturing and testing.

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