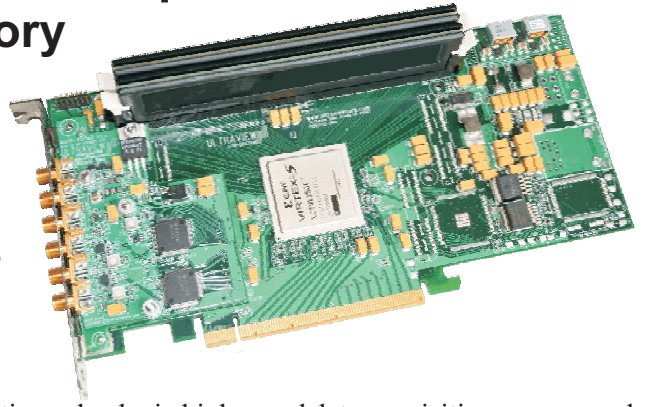


### **14-bit and 12-bit 400/500-MSPS Dual-channel PCIe Data Acquisition Boards with 8GB Deep Memory**

***New PCIe Boards with  
Virtex-5™ FPGA and  
1GB/sec DMA for Record-  
ing Wideband Analog Data  
and Optional Reconfigur-  
able Signal Processing***



Orinda, CA., 6/30/08. Ultraview Corporation, a leader in high speed data acquisition, announced 14 bit @ 400 MSPS and 12 bit @ 500 MSPS PCIe data acquisition boards, allowing uninterrupted full-speed acquisition into host memory or to the 8GB of on-board RAM. A 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 PCIe x16 or x8 slot, these ADC Boards can continuously acquire wideband data, optionally process it in the on-board Virtex™ FPGA, buffer it in the 8GB on-board RAM, and continuously stream data to host system RAM for immediate use, graphical display, or storage. A TTL selective recording input allows acquisition to be dynamically stopped and started, increasing effective memory depth by storing only needed data, for applications such as RADAR, burst communication, and pulsed-spectroscopy.

#### **Rapid Development and OEM-customization using easily modified C Software/VHDL-Firmware packages included with board**

Designed for high speed, low-jitter, operation in critical applications, these ADC boards allow either straight data acquisition requiring no user development, or in-line dataflow processing using the on-board Xilinx Virtex-5™ FPGA (XC5VLX50T standard, with OEM option for any 1136-pin Virtex-5™ up to XC5VLX155T). For use as a standard DAQ board the supplied user software and device driver allow users to acquire, view, and store data with only minutes required to setup the board. Drivers, user software, and example user source code are supplied for both 64-bit Linux and 32-bit and 64-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 host-uploadable firmware capability lets users reconfigure the onboard FPGA through the host system's PCIe bus, without a programming cable, allowing OEMs to quickly, and even remotely, modify the board's 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 source is available to OEM users under NDA.

#### **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, samplers and mixers. Ultraview President Dr. Joel Libove added "These new ADC Boards in addition to our 3GSPS dual 8-bit ADC Board, fill in our PCIe product line with 12 and 14 bit converters designed to address requirements for the highest performance data acquisition systems. These are effective standalone systems-on-a-board that can also be used as a component in OEM systems configured by other manufacturers who may use the on board FPGA capabilities and optional OEM front-end mezzanines to customize for specific applications."

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## Ultra-fast Multi-board Multichannel Data Acquisition Systems

“This is our sixth generation of ADC board and by far the highest performance.” stresses Dr. Libove. “ADC boards may be ganged, to concurrently acquire multiple channels. For example, with four dual channel boards and our clock/trigger splitter, 8 A/D channels can be acquired concurrently at full speed, for high aggregate rates, with 4GB of acquisition depth on each channel. The 4GB or 8GB dedicated RAM on each ADC Board allows ultra-fast wideband single shot capture of long events. High signal to noise ratios of 68 dB for the 14 bit ADC and 63 dB for the 12 bit ADC means these boards are quiet and accurate.”

In quantities of 2 or more, a single channel AD12-500x1-4GB is priced from \$8995; the dual channel version with 8 GB of RAM (AD12-500x2-8GB) is priced at \$10,795. In quantities of 2 or more, a single channel AD14-400x1-4GB is priced from \$9895, the dual channel AD14-400x2-8GB version with 8 GB of RAM is priced at \$11,695. Availability is typically from stock.

### About Ultraview Corporation

Ultraview, founded in 1987, manufactures high performance OEM and COTS PCIe and PCI data acquisition boards used in defense, communications, scientific and medical areas.

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