Dual channel 1MS.s⁻¹ (simultaneous) 13bit ADC with memory, FPGA, and USB2 interface.

Applications:
- Intelligent Digital scope.
- Fast USB interfaced data capture.
- Transient Recorder.
- Firmware Transient Averager.
- Transient Processor / Digital Filter.
- NMR Signal Average and Process.

Features:
- Full USB2 data transfer rate.
- Modular and extensible.
- Programmable over USB bus.
- Modular firmware available.
- International Cardstac form factor.
- Standard FTDI USB interface chip.

The module provides for simultaneous 2 channel single-ended or differential transient data firmware capture/optional modulus/average at 1MS.s⁻¹, or for 4 channel single ended capture at 0.5MS.s⁻¹. Credit-card sized Cardstac form-factor stackable module, using gold plated SMA connectors, with Field Programmable Gate Array (FPGA). Firmware digital filter. Two independent I/O gold plated SMA connectors for incoming or outgoing digital triggers. 4 additional optional gold plated SMA connectors may be specified. Optional NMR Pulse-sequencer may also be programmed into the FPGA. For extra capabilities, additional Cardstac boards with various functions including transient capture may be added to the stack. FPGA Modular Firmware Skeleton VHDL code is available for implementing multiple instruments within one FPGA.

Contact: Dr. Beau Webber
Beau@Lab-Tools.co.uk
www.Lab-Tools.com

07805 437 241