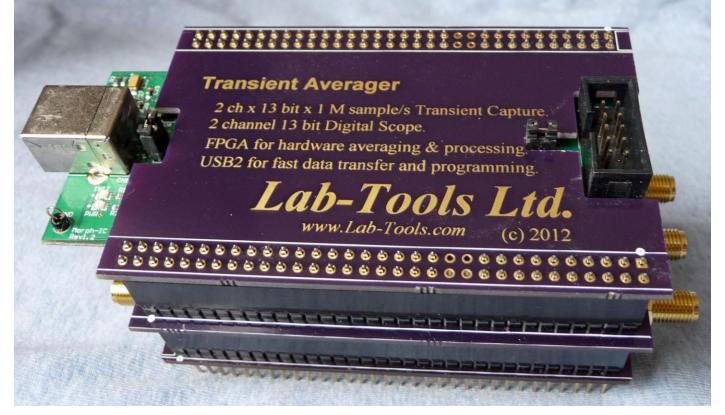


Digital Scope, Transient Averager & Waveform Processor

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## Dual channel 1MS.s<sup>-1</sup> (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 simultaneous 2 channel single-ended or differential transient data capture/average at 1MS.s<sup>-1</sup>, or for 4 channel single ended capture at 0.5MS.s<sup>-1</sup>, using gold plated SMA connectors. Credit-card sized Cardstac form-factor stackable module, with Field Programmable Gate Array (FPGA). Digital filter firmware. Two independent I/O gold plated SMA connectors for incoming or outgoing digital triggers. 4 additional optional gold plated SMA connectors may be specified. 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.

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