TOC

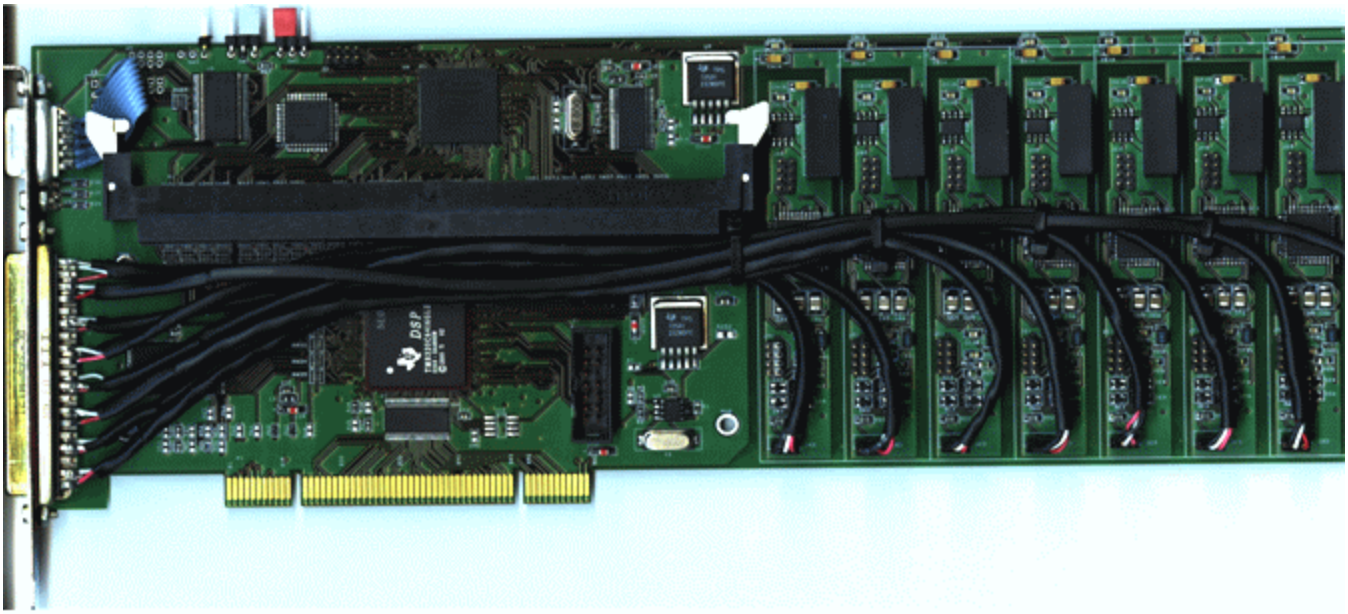
Other pages:

Description

This full-length PCI card is a multi-channel transient recorder provides 8 galvanic isolated inputs up to 1 kV. The analog path is totally differential to minimize electrical crosstalk, especially the noise induced by the common mode high-voltages. The module has onboard memory to digitize up to 256 MSamples at a frequency of 2 MHz, simultaneously on all channels, with a resolution of 14-bit. Real-time digital signal processing functions allow the digital down sampling and also readout of raw and filtered data in real-time.

Characteristics

- Eight independent, simultaneous sampling, galvanic isolated input channels (1 kV DC @ 1 min.).
- Each channel digitizes 14 bits samples at a rate of 2 MSPS. ENOB > 11.5-bit
- 256 or 512 MBytes (128 or 256 MS@14-bit) of SDRAM memory shared among all channels.
- Analog inputs: differential, protected up to ±25V; impedance > 10k Ohm; 1 MHz Butterworth 3^{rd} order low-pass passive filter;gain settable to ±10V, ±2.5V, ±0.5V, ±0.1V.
- Inputs on a standard high-voltage 37-pin D-connector or on-board individual connectors for mounting the plugs on an external panel or on the PC case front.
- TTL or RS-485 external trigger and 1 or 2 MHz reference clock inputs/outputs on a DB-9 connector; multiple boards on the same chassis can also be synchronized through an internal bus.
- Data readout in real-time from the module internal memory to the host computer through a bus mastering DMA controller.
- 32-Bit/33-MHz, 3.3 V and 5 V universal PCI Master/Slave interface which conforms to the PCI Specification 2.2; Single-slot, full-length PCI format board.
- Power consumption: 25 W (3.3V plus 5V)



PCI-TR-256