



## AL12200 PCI Digitizer

### Analog Section

- Single analog channel, two inputs switched by multiplexer (5 micro second switching time)
- AC/DC coupling, software selectable
- 50 Ohm input impedance - software selectable
- Input ranges: 50 mV<sub>p-p</sub> - 5V<sub>p-p</sub>
- Bandwidth: DC to 100 MHz -3dB
- Fine offset control
- Time profile for gain control, 20 ns resolution, 10 bit gain control DAC

### A/D Converter

- 200 MSamples/sec sampling rate, 12 bits resolution, single channel

### Clock

- Sampling rates: 200 MHz, 100 MHz, 66 MHz

### Trigger Sources

- Software trigger
- Encoder trigger
- Internal trigger connector, TTL
- External trigger input, programmable threshold (BNC)
- Signal threshold trigger, programmable threshold

### Acquisition Control

- Pre-trigger and Post-trigger delay acquisition
- Auto re-arming

### Memory

- 64 MSamples on-board acquisition memory
- Fast offload while acquiring
- Optimized for maximum repetition rate in both pre- and post-trigger modes

## DSP Functions

- Peak Detectors
- Multiple acquisitions per trigger

## Bus Interface

- PCI interface, 32 bits, 33 MHz
- PCI burst transfer rates up to 133 MBytes/sec
- PCI master mode operation
- DMA transfers with scatter/gather support
- Interrupt on completion of DMA transfers

## Connectors

- 2-BNC connector for analog signal input
- BNC connector for clock/reference input
- BNC connector for trigger input/output
- 16 bit digital I/O
- Internal trigger I/O connector (3 pin header)

## Physical Dimensions

- Full height, half length PCI board (176mm)