PCI385
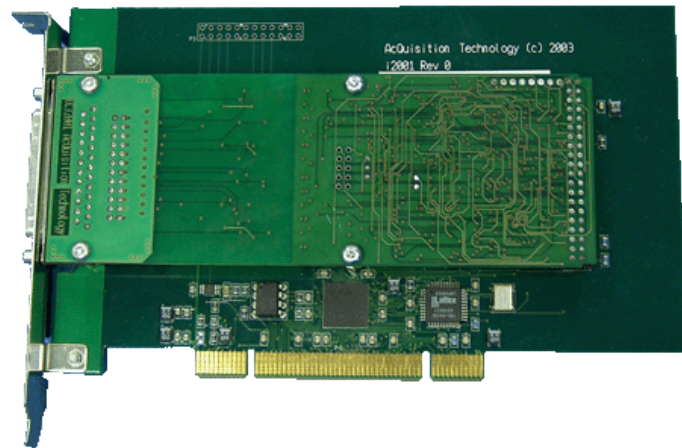
Universal Timer/Counter for PCI

The PCI385 Universal Timer Counter PCI card is an ideal solution for automated test and measurement applications. The PCI385 features two timer/counter inputs. Both inputs have a coaxial connector for the input range of +/- 10 V and high-voltage pins for the input range of +/- 300 V. The coupling of the inputs is either AC or DC. The PCI385 provides 6 measurement functions: frequency, high-time, low-time, period, counter and phase measurements.

Features:

> Two timer/counter inputs
> Programmable AC/DC coupling
> Input voltage range +/- 10V
> Additional inputs +/- 300V
> Front-end optically isolated
> Programmable trigger level and sensitivity
> Minimum pulse width of the counter signals of 20 nanoseconds
> 32-bit counter and 32-bit timer with 100 MHz timebase

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PCI Interface

* The PCI385 has a PCI Specification 2.2 compliant target interface and uses a PCI9030 PCI Bus Target Interface Chip by PLX Technology Inc.

Analog Characteristics

* The analog front-end is software programmable with respect to trigger level, sensitivity and AC/DC coupling.
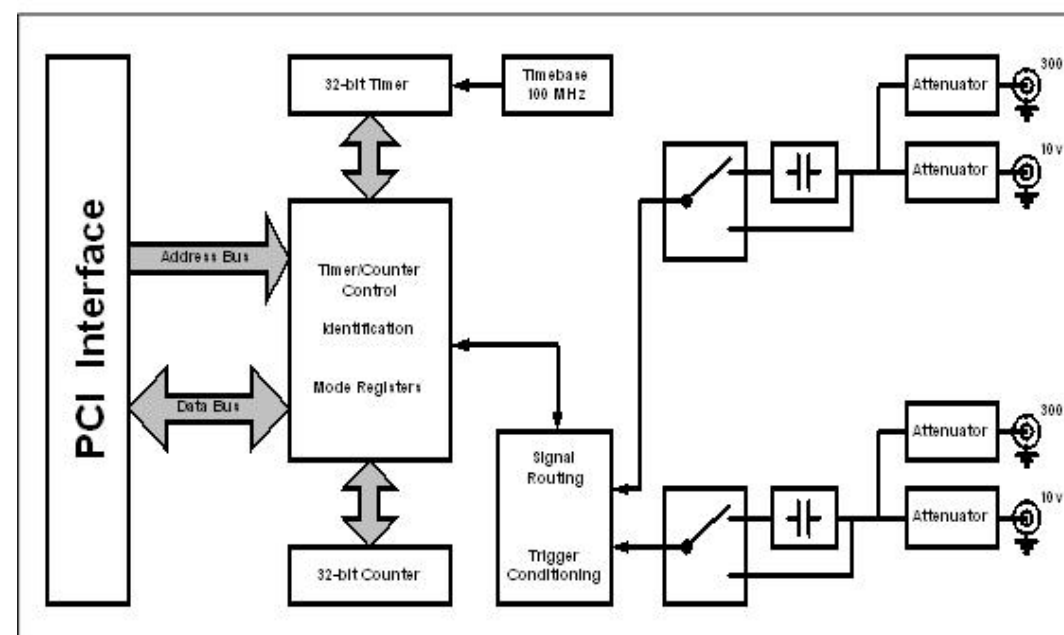
I/O Channels

* The PCI385 features two timer/counter input channels.
* Both input channels consist of a coaxial connector for the input range of +/-10 V and a high voltage pin for the input range of +/-300 V.
* The coupling of the input channels is either AC or DC.
* The input range and the coupling of the input channels is software selectable.

Typical Applications

* Frequency measurement
* High-time and low-time measurement
* Period measurement
* Phase measurement
* Event counting

Ordering Information

* **PCI385/T01** Universal timer/counter PCI Card, 100 MHz timebase
* **PCI385/T02** Universal timer/counter PCI Card, 250 MHz timebase
* **PCI385/SW** APIS based software
* **PCI385/MAN** manual on paper

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