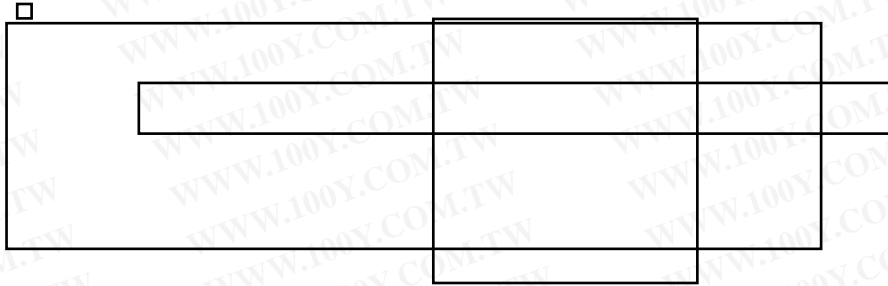


PCX-2016 PCI-bus 16 Channels Isolation Analog Input and digital I/O Card



- ▶ 32-bit PCI-Bus, Plug and Play
- ▶ 16-CH 12-bit single-ended opto-isolated analog inputs
- ▶ Isolation 1500Vrms continuous, 2500Vrms for one minute
- ▶ Programmable gain of 1, 10, 100
- ▶ Sampling rate up to 100KHz
- ▶ Trigger mode: software trigger, timer pacer, external trigger
- ▶ On-board A/D 1K WORDS FIFO memory
- ▶ Auto-scanning channel selection
- ▶ 8 channel opto-isolated digital output
- ▶ 8 channel opto-digital input

Specifications:

Analog Input (A/D)

- ▶ Converter : B.B. ADS774, successive approximation type
 - ▶ Resolution : 12-bit
 - ▶ Input channels : 16 single-ended/8 channel differential
 - ▶ Isolated programmable gain amplifier : PGA206
 - ▶ Isolation voltage rated continuous:1500Vrms
 - ▶ Barrier Impedance: 10MW || 10 pf
- Leakage Current: 0.8 m Ams

- ▶ Input Range : (Software controlled)
 - ▶ Bipolar : $\pm 10V$, $\pm 1V$, $\pm 0.1V$ or $\pm 5V$, $\pm 0.5V$, $\pm 0.05V$
 - ▶ Unipolar : $0\sim 10V$, $0\sim 1V$, $0\sim 0.1V$.
- ▶ Throughput: Gain = 1 100KHz, Gain = 10 60KHz, Gain = 100 10KHz
- ▶ Overvoltage Protection: Continuous $\leq 35V$ maximum
- ▶ Accuracy: 0.015% of reading ± 1 bit
- ▶ Input Impedance: 10 MW
- ▶ Trigger Mode: Software and Pacer
- ▶ Data Transfer: Program control, Interrupt
- ▶ FIFO Buffer Size: 1024 samples

Isolated digital outputs

- ▶ output channel : 8 opto-isolated channels
- ▶ Open-Collector : (NPN) Outputs
- ▶ Load current : 130mA (Max) per channel
- ▶ Load Voltage : 30Vdc
- ▶ Isolated : 500v channel-channel / channel - Ground

Isolated Inputs

- ▶ input channel : 8 opto-isolated channels
- ▶ Type : opto-isolated (PC-814)
- ▶ Input voltage : DC 5-24V (0- 1KHz)
- ▶ Input impedance : 4.7 Kohm
- ▶ Response time : 20u Sec
- ▶ Isolated : 500v channel-channel / channel - Ground

Software:

- ▶ Software Toolkit (DLL, AActivex) for Windows 98/2000/NT/XP
- ▶ Software Toolkit for Labview, Intouch

General Specifications:

- ▶ Connector : 37-pin D-type connector
- ▶ Operating Temperature : 6.77" (172mm) (L) x 4.13" (105mm) (W)

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