

DATA

PCI-PIO

48 Channel Programmable Input/Output Card

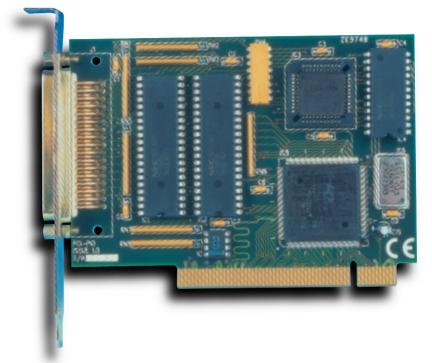
The PCI-PIO is a PCI-compatible half-card which provides digital input/outputs and counter/timers.

There are 48 TTL-compatible programmable digital input/outputs available from the board. If the controlling devices are used in handshake mode, the handshake lines are available as interrupt sources.

There are also three programmable counter/timers, the enable and clock inputs being available externally, if required , and the outputs being accessible externally or as interrupt sources. A 4MHz crystal oscillator is available on board to allow the counter/timers to act as accurate timebases.

All input/output lines are available at an industry standard 50 way D-type plug connector.

One PCI interrupt line may be selectively driven by the seven interrupt sources on the board, the interrupting source being readily identified by the board.



- 8255 compatible, inputs & outputs
- 3 on-board 16 bit Counter Timers (8254 compatible)
- Facility to fit pull up/down resistors on inputs
- Fully PCI and Plug -and-play compliant
- All connections via 1 x 50 way male D type connector
- Supplied with demonstration software examples
- Drivers for Windows® 2000 and Windows NT® available separately



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Technical Specification

Number Of I/O Channels: 48 arranged as 2 x 3 x 8 I/O bits

Signal Levels: 5 Volt TTL Logic Levels

Outputs:

Logic Low Level: 0 Volts (min.) - 0.4 Volts (max.) @ IOL = 2.5mA

Logic High Level: 3.5 Volts (min.) - 5 Volts (max.) @ IOH = -400mA

Drive Current: 2.5 mA. (Logic Low) Vout = 0.4 Volts

-400 μA (Logic High) Vout = 3.5 Volts

Input Loading: -10 µA (Logic Low)

+10 µA (Logic High)

Counter/timers: 3 x 16 Bit.

Counter/timers 0,1 and 2 may be cascaded to

provide a single 48 bit Counter/timer.

All Counter/timers may be clocked externally at a

maximum rate of 4 MHz.

On board Oscillator: Frequency 4MHz.

Stability ± 100ppm 0 - 70°C

Interrupt Sources: Register selectable to 3 Counter/timer outputs, and

4 PIO handshake control lines.

Interrupt Levels Supported: All PCI interrupts

Address Overhead: 16 contiguous addresses in 16 byte block

Board Power Requirement: +5 Volts, 1.2 W maximum

Signal Connections: 1 x 50 way male 'D-type' plug

Dimensions: 125 (L) x 91 (H) board only

135 (L) x 122 (H) x 22 (W) including bracket

Options

50 way screw terminal adapter

1 metre cable with IDC and D type connector

Windows NT® driver

Windows® 98/2000 driver



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