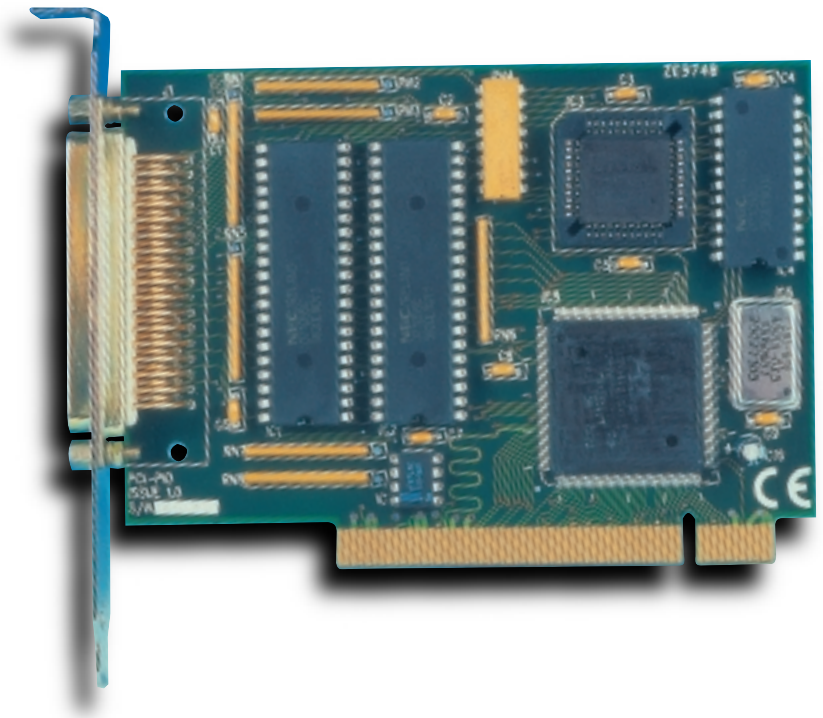
Blue Chip Technology

DATA ACQUISITION CARDS

# 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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## 48 Channel Programmable Input/Output Card

## 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 = -400µA |
| Drive Current: | 2.5 mA. (Logic Low) Vout = 0.4 Volts<br>-400 µA (Logic High) Vout = 3.5 Volts |
| Input Loading: | -10 µA (Logic Low)<br>+10 µA (Logic High) |
| Counter/timers: | 3 x 16 Bit.<br>Counter/timers 0,1 and 2 may be cascaded to provide a single 48 bit Counter/timer.<br>All Counter/timers may be clocked externally at a maximum rate of 4 MHz. |
| On board Oscillator: | Frequency 4MHz.<br>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<br>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

BS EN ISO 9001
Certificate No 33069

CE

3 YEAR WARRANTY

Blue Chip Technology

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