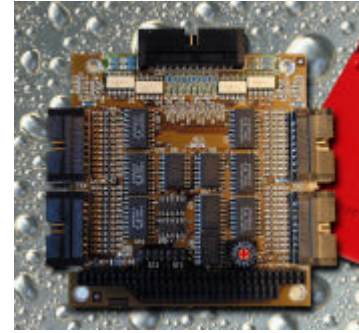


Micronix PV-1648

64 channel digital I/O board



Micronix PV-1648 is a multi-channel I/O board with 16 opto-isolated digital inputs and 48 high-drive, non-isolated open collector digital outputs (optional pull-up to +5V) combined on just one PC/104 board. Micronix PV-1648 is the ideal solution for controlling a large number of outputs in machine control and SCADA applications.

Features

- 16 opto-isolated digital inputs
- 48 digital outputs, 100 mA per channel
- Industrial temperature range (-20° to +70°C)
- Software drivers for Win NT, 9x, 2000 and Linux platforms
- Low-cost

Description

The Micronix PV-1648 is constructed with highly integrated logic to reduce power consumption and only requires +5V for operation. All output lines are buffered and each line is capable of sinking 100mA in a logic low state. The board provides access to interrupt levels IRQ5,7,9,10,11,12,15 on the PC bus for real-time back-ground applications. 16 different I/O addresses from 200H to 338H.

Free Software driver for Windows NT & 9X systems

Software drivers are included with Micronix PV-1648 to allow controlling the board from Microsoft NT, 9X or Linux applications. The software driver supports all of the board's features, including interrupt operation. Example programs demonstrate the use of the function calls and provide a starting point for program development.

Technical manual and software are supplied with each Micronix PV-1648-board.

Specifications:

Inputs

Number of channels: 16 opto-isolated inputs, groups of two

Isolation: Up to 1000 Vrms

Mix input voltage range: ±30 V, input

Current Limit Resistor: 10 KΩ , 0.25W

Logic "1": Uin < -10V, Uin > +10V

Logic "0": -5 V < Uin < +5 V

Input delay: ON: < 25 μs
OFF: <100 μs

Interrupts: IRQ 5,7,9,10,11,12,15 selectable on channel 0

Connector: 26-pin ribbon cable connector

Power requirement: +5V DC, 50mA

Outputs

Number of channels: 48 digital o.c. (optional pull-up) outputs, one common GND, 4 groups of 12.

Voltage, load: 50V DC

Max current, load: 400mA / BYTE

Max load per channel: 100mA / Channel

Saturation: Max. 1.6V

Connector: 4 x 16-pin ribbon cable connector

Environmental

Operating temperature -20° to 70° C

Storage temperature -40 to 85° C

Humidity 0 to 90% non-condensing

Ordering codes

Model no.	Description
PV-1648	PC/104 board with 16 DI (opto-isolated) and 48 DO
	/-P Pull-up +5V
	/-S PV-1648 with stack-through connector

Cables

C25/4C15 Cable-kit for PV-1648 with DB-connectors: 1xDB25 (input) and 4xDB15 (output)



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