

# MICRONIX PC/I04: OPTO-ISOLATED IN-/OUTPUT BOARD



## PV-1608: OPTO-ISOLATED I/O MODULE: 16 DIGITAL INPUTS AND 8 DIGITAL OUTPUTS

Designed for embedded control systems - **The Micronix PV-1608** - opto-isolated I/O-board is a compact highly integrated module for monitoring digital input status and control of digital outputs.

Micronix PV-1608 lets you handle combined I/O's from one single PC/I04 board. The PV-1608 module plugs into any standard PC/I-104 bus interface and provides you with 16 digital opto-isolated inputs and 8 digital high power opto-isolated outputs. Non-Stack-through or stackthrough (S-versions) connectors are available. Supplied with drivers for Windows 95/98 and NT.

### Application examples:

- Industrial signals ON/OFF monitoring
- Limit switch monitoring
- Valve/Solenoid drive output
- Relay, lamp, display drivers

### 16 opto-isolated digital inputs, 10-30 V.

It provides 16 channels of input to detect bipolar ON/OFF, OPEN/CLOSE signals and has interrupt capability on its first two channels. The input range is from 10V to 30V suitable for many applications. The isolation voltage is up to 1000 Vrms from the input to the host. This feature causes voltage spikes that often occur in harsh industrial environments to be safely isolated from the computer.



### 8 opto-isolated digital outputs, 1.5 A

The PV-1608 board has 8 opto-isolated outputs with low impedance MOS transistors and allow loads up to 1.5A per channel. It allows control of up to 8 devices like solenoids, pneumatic- or hydraulic valves, motor starters, etc. The output status can be read back by reading the same address for verification.

### Specifications:

#### Inputs

Number of channels: 16 opto-isolated inputs, groups of two  
Isolation: Up to 1000 Vrms  
Voltage range:  $\pm 10 - \pm 30$  V, input  
Current Limit Resistor:  $3.9K\Omega$ , 0.25W  
Input delay: ON:  $< 25 \mu s$   
OFF:  $< 100 \mu s$   
Interrupts: Int. 5,9,10,11,15  
selectable on channel 0 and 1  
Connector: 26-pin ribbon cable connector  
Power requirement: +5V DC, 50mA

#### Outputs

Number of channels: 8 opto-isolated outputs, one common GND  
Isolation: Up to 1000 Vrms  
Voltage, load: 10-50V DC  
Max current, load: 1.5 A per channel  
Max load per channel: 30 VA  
Output on-resistance: 150 m $\Omega$ , max  
Connector: 16-pin ribbon cable connector

#### Physical / Environment

Dimension: 95x90mm  
Temperature range: Operating: 0-60° C  
Storage: -25° C to +85° C  
Humidity: 0 to 90% RH, non-condensing

### Ordering information

**PV-1608-P** 16 DI, 8DO, opto-isolated, PNP output  
**PV-1608-N** 16 DI, 8DO, opto-isolated, NPN output  
**/-S** Stack-through connector  
**/-C25** Ribbon-cable kit with Sub D-25 female chassis connector for inputs, 30cm  
**/-C15** Ribbon-cable kit with Sub D-15 female chassis connector for outputs, 30cm



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