

High Voltage Parallel Digital I/O Board



Model PIO-HV

\$299

- ✓ 24-Bits of Digital I/O
- ✓ 8 Bits Selectable as Input or Output
- ✓ 8/8 Input/Output Bits
- ✓ Outputs Switch 25 mA Up To 50 V
- ✓ Inputs Monitor Up To 32 V
- ✓ For Contact Monitoring Relay Control, Process Control, Energy Management and Display Drivers

For controlling and monitoring digital signals with voltages greater than standard 5 V logic levels, the model PIO-HV is a 24-bit parallel interface (for IBM and compatible computers). Interfacing most standard logic level boards to higher voltages requires external signal conditioning, which is both expensive and bulky. Electromechanical relays are often used to expand the output capabilities of some digital output boards, but can give a low switching speed, high power consumption and relatively short life. Unlike most digital I/O boards designed to interface directly with +5 V logic signals (such as LSTTL or NMOS families), the PIO-HV offers high voltage input and output capabilities.

The PIO-HV's 24 bits are divided into three 8-bit ports. Port A is an 8-bit input port and port B is an 8-bit output port; port C is switch selectable for input or output. With this switch located on the rear panel of the board, a user can easily set the switch to change port C without opening the computer. The output ports are open collector and will switch 25 mA at up to 50 Vdc. The input ports will monitor voltages up to 32 Vdc.

A 37-pin D connector, which extends out the rear of the host computer, provides easy access to all connections. Use of the STA-U screw terminal board simplifies field wiring.

Programming can be accomplished simply by reading and writing to register locations. Also supported by Labtech Notebook Software for Windows for turnkey operation.

Specifications DIGITAL OUTPUTS (PORT A)

Number of Bits: 8
Configuration: open collector
Maximum Voltage: 50 V
Output Current: 25 mA at less than 1 V

DIGITAL INPUTS (PORT B)

Number of Bits: 8
Configuration: common ground (single ended)

Input Impedance: 1500 Ohms
Input High Level: greater than 3.5 V (at 1.5 mA)
Input Low Level: less than 2 V or open circuit

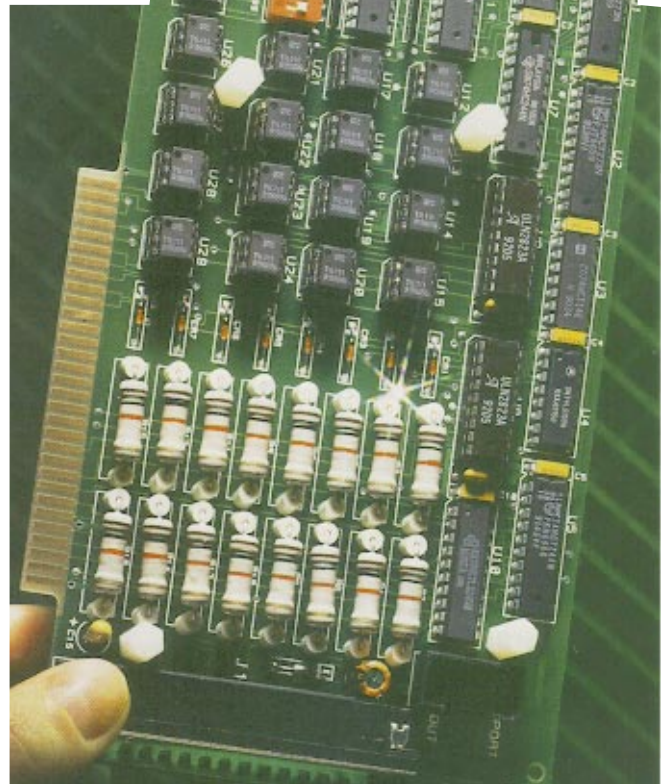
DIGITAL I/O (PORT C)

Outputs:

Number of Bits: 8
Configuration: open collector
Maximum Voltage: 50 V
Output Current: 25 mA at less than 1 V

Inputs:

Configuration: common ground input



Input Impedance: 1500 Ohms
Input High Level: greater than 4.0 V (at 2.0 mA)

Input Low Level: less than 2 V or open circuit

POWER CONSUMPTION

+ 5 V Supply: 300 mA typ./400 mA max.

ENVIRONMENTAL

Operating Ambient: 0 to 50°C (2 to 122°F); 0 to 90% RH

Storage Temperature: -20 to 70°C (4 to 158°F)

Weight: 120 g (4 oz)

To Order (<i>Specify Model Number</i>)		
Model No.	Price	Description
PIO-HV	\$299	High voltage digital I/O board
STA-U	120	Screw terminal board
C-1800	30	PIO-HV to STA-U cable
STC-37	110	Direct PIO-HV to screw terminal interface

Ordering Example: PIO-HV digital I/O board with STA-U terminal board and C-1800 cable, \$299 + 120 + 30 = \$449.