

# CIO-DIO24 24 channel Digital I/O Board

**\$49**  
Basic Unit



The CIO-DIO24 low-cost digital I/O board is designed for use with IBM or compatible computers. The board employs one 8255 digital I/O chip, controlling 24 digital I/O lines, and consists of three ports: an 8-bit PA port, an 8-bit PB port, and an 8-bit PC port. The PC port may also be used as two half ports of 4 bits. Each of the ports and half ports may be configured as input or output by software control. After RESET (power up of computer), all ports are set as inputs.

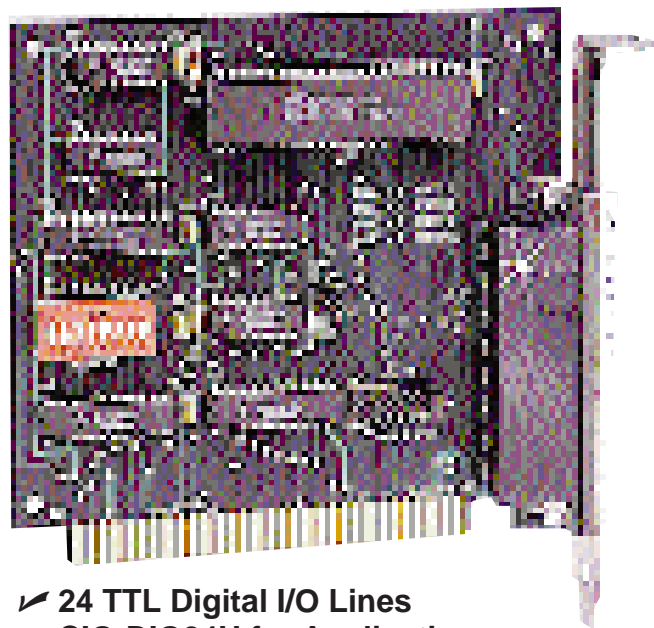
The CIO-DIO24H is designed for applications that require higher current outputs; 64 mA sink or 15 mA source. This board can light LEDs and switch relays, without the use of amplifiers or buffers.

For use with real world signals, both boards connect to the SSR-RACK24 backplane, which will hold up to 24 isolation I/O modules. Both boards are very easy to program from any language that supports writing to and reading from I/O ports, and are supported by Labtech Notebook menu driven software. (See Section B for software.)

Optional software drivers, called UNIV-DRVR, are available for programming in both DOS, Windows 3.1 & Windows 95. DOS support includes QuickBasic 4.5, Visual Basic, Turbo C, Visual C++, Microsoft C and Quick C. Windows support includes Microsoft C, Visual C++, Visual Basic, Borland C, and C++. Labview drivers are also available. (requires UNIV-DRVR)

## Accessories

Model No.	Price	Description
CIO-MINI37	\$49	102 x 102 mm (4" x 4") Screw terminal panel, 12-22 AWG terminals (requires C37FF series cable listed below)
CIO-TERMINAL	99	406 x 102 mm (16" x 4") Screw terminal panel with prototype area, 12-22 AWG terminals (requires C37FF series cable listed below)
SSR-RACK24	149	406 x 102 mm (16" x 4") Solid state relay rack (requires C37FF Series cable and isolation modules listed below)
C37FF-2	25	37-Conductor ribbon cable, female-female, 0.6 m (2')
C37FFS-5	30	37-Conductor shielded round cable, female, 1.5 m (5')
C37FFS-10	40	37-Conductor shielded round cable, female, 3.0 m (10')
DFCON-37	15	Connector kit, AMP crimp pins, connector and shell
ACO5-C*	15	AC output isolation module for SSR-RACK24
ACI5-C*	15	AC input isolation module for SSR-RACK24
DCO5-C*	15	DC output isolation module for SSR-RACK24
DCI5-C*	15	DC input isolation module for SSR-RACK24



- ✓ 24 TTL Digital I/O Lines
- ✓ CIO-DIO24H for Applications Requiring Current Outputs to 64 mA
- ✓ Interrupt Handling Supported
- ✓ Plugs Into IBM PC/XT/AT or Compatible Bus
- ✓ ±12V and +5V Available on the Connector from the PC
- ✓ Labview Support

## Specifications

**Interrupt Inputs:** 1, PC Bus 2-7

**Power Consumption:** +5V @ 400 mA

### CIO-DIO24

**Logic Low Level:** -0.5 to 0.8 V max.

**Logic High Level:** 2.0 to 5.0 V max.

**Input Current:** ±10 µA

**Output Low Sink Current:** 1.7 mA @ 0.45 V

**Output High Source Current:** -200 µA @ 2.4 V

### CIO-DIO24H

**Output Low Voltage:** 0.55 V

**Output Low Sink Current:** 64 mA

**Output High Voltage:** 2.0 V

**Output High Source Current:** 15

**Dimensions:** occupies one half-size PC bus slot

To Order ( <i>Specify Model Number</i> )		
Model No.	Price	Description
CIO-DIO24	\$59	Digital I/O plug-in board, 24 TTL inputs/output
CIO-DIO24H	69	Digital I/O plug-in board, 24 high drive inputs/outputs
UNIV-DRVR	49	Universal Drivers for DOS/Windows
CIO-Labview-DRVR	49	Labview Drivers (needs UNIV-DRVR)