

# CIO-DIO24 Economical Digital I/O Plug-In Cards

**\$159**

Basic Unit



- ✓ 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

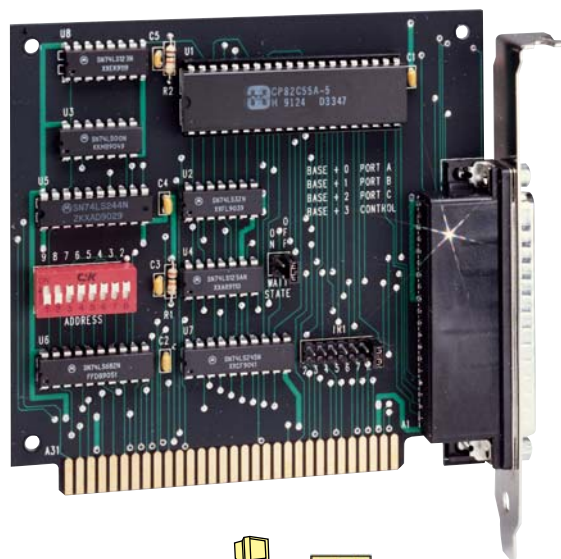
The CIO-DIO24 low-cost digital I/O board is designed for use with IBM PC/XT/AT or compatible computers. The board employs one 8255 digital I/O chip, controlling 24 digital I/O lines, and consists of three ports: an 8-bit PA port, an 8-bit PB port, and an 8-bit PC port. The PC port may also be used as 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; up to 64 mA sink or 15 mA source is possible. This board can light LEDs, switch relays, and perform a host of tasks directly 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

## Accessories

| Model No.        | Price | Description   |
|------------------|-------|---|
| CIO-MINI37       | \$69  | 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, see the H section for isolation modules) |
| C37FF-2          | 25    | 37-Conductor ribbon cable, female-female, 0.6 m (2')  |
| C37FFS-5         | 35    | 37-Conductor shielded round cable, female, 1.5 m (5')   |
| C37FFS-10        | 45    | 37-Conductor shielded round cable, female, 3.0 m (10')  |
| DFCON-37         | 15    | Connector kit, AMP crimp pins, connector and shell  |
| UNIV-DRVR        | 49    | Universal Driver Library for DOS and Windows  |
| CIO-LABVIEW-DRVR | 49    | LabVIEW Driver  |



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.)

## 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

**MOST POPULAR  
MODELS HIGHLIGHTED**

| To Order (Specify Model Number) |       |   |
|---------------------------------|-------|---|
| Model No.                       | Price | Description   |
| CIO-DIO24                       | \$159 | Digital I/O plug-in board, 24 TTL inputs/outputs        |
| CIO-DIO24H                      | 199   | Digital I/O plug-in board, 24 high drive inputs/outputs |

Includes data sheet and configuration and test software

**Ordering Example:** CIO-DIO24 digital I/O board with 24 TTL inputs/outputs, CIO-MINI37 screw terminal panel, and C37FF-2 37-conductor 2' (0.6 m) cable, \$159 + 69 + 25 = \$253.



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