

24 Channel Digital I/O and Counter Timer Board For IBM PC and Compatibles

CIO-DIO24/CTR3

\$229
Basic Unit



Shown smaller than actual size

- ✓ Three 16-Bit Counters
- ✓ 24 Lines of Digital I/O
- ✓ 10 MHz Oscillator On-Board
- ✓ Internal Jumpers for Counter Chaining

Specifications

- Digital I/O Channels:** 24, as three 8-bit ports
- 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
- 8254 Counter:** fully programmable, 16-bit down counter; gated input TTL level control; 10 MHz (on-board oscillator) max input frequency
- Interrupt Inputs:** 1, PC Bus 2-7
- Power Consumption:** +5 V, 400 mA

The CIO-DIO24/CTR3 combines digital input/output and counters on one board. It has the digital lines common to the PIO-12, PIO-24 and CIO-DIO24 boards, and is also connector compatible with them.

In addition, three 16-bit counters allow frequency measurement or event counting, such as monitoring the number of times a door opens or items passing on a conveyor belt.

Programming

The CIO-DIO24/CTR3 is very easy to program from any language that supports writing to and reading from I/O ports. Two chips control the board functions. An 8255 chip contains the 24 lines of digital I/O and an 8254 chip contains the 3 16-bit counters.

I/O Connector

The connector carries 24 digital I/O lines plus the counter inputs and outputs. The 8255 digital I/O chip has 24 I/O lines. The chip is configured as three ports. Two

ports, A and B, are 8-bits wide. Port C may be an 8-bit port or two 4-bit ports. Individual ports may be configured as input or output, and are written to or read from as a unit. Counter inputs, gates and outputs may be controlled or chained at the connector, or inboard on a counter chaining jumper.

To Order (Specify Model Number)

Model Number	Price	Description
CIO-DIO24/CTR3	\$229	Digital I/O and counter board
CIO-TERMINAL	99	16" x 4" screw terminal board with prototype area, requires C37FF-2 cable
CIO-MINI37	69	4" x 4" screw terminal board, requires C37FF-2 cable
C37FF-2	25	Connection cable, 2 ft
UNIV-DRVR	49	Universal Driver Library for DOS and Windows
CIO-LABVIEW-DRVR	49	LabVIEW Driver

Ordering Example: CIO-DIO24/CTR3 digital I/O counter board with CIO-MINI37 terminal panel and C37FF-2 cable, \$229 + 69 + 25 = \$323.



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• Flow and Level

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