192-Channel Digital I/O Board
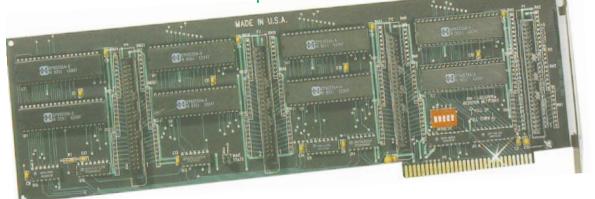## For IBM PC and Compatibles

CE

MADE IN USA

DI/O   IBM PC

Shown smaller than actual size

Model CIO-DIO192

$199

- 192 TTL Digital I/O Lines
- Each 50-Pin Connector Carries 48 Digital Lines Plus Power
- Labview Support

The CIO-DIO192 can control 192 devices or sense 192 contact closures from a single card in a PC. The CIO-DIO192 employs eight 8255 parallel peripheral interface chips which are programmable in three modes; simple byte input or output or strobed I/O. The 8255 is simple to program.

The CIO-DIO192 is a member of a family of digital I/O boards which use the 50-pin connector. Applications can easily be sized from 48 to 192 digital I/O points or more. Software is extensible to multiple points and all the accessories, including screw terminal boards, electro-mechanical relay boards and solid state relay boards interface to the same connector. Regardless of which digital I/O board is used.

I/O REGISTER MAP

The CIO-DIO192 occupies 32 I/O addresses. The first address, or BASE address, is fixed by the base address switch.

CABLING AND CONNECTION

Cabling to the CIO-DIO192 is via standard 50-pin, 0.10" spacing AMP type ribbon cable connectors. Each cable carries 48 digital I/O lines, +5 V and ground. The CIO-DIO192

Base + 0	Port A #1
Base + 1	Port B #1
Base + 2	Port C #1
Base + 3	#1 Control
Base + 4	Port A #3
Base + 5	Port B #3
Base + 6	Port C #3
Base + 7	#3 Control
Base + 8	Port A #2
Base + 9	Port B #2
Base + 10	Port C #2
Base + 11	#2 Control
Base + 12	Port A #4
Base + 13	Port B #4
Base + 14	Port C #4
Base + 15	#4 Control
Base + 16	Port A #5
Base + 17	Port B #5
Base + 18	Port C #5
Base + 19	#5 Control
Base + 4	Port A #7
Base + 5	Port B #7
Base + 6	Port C #7
Base + 7	#7 Control
Base + 20	Port A #6
Base + 21	Port B #6
Base + 22	Port C #6
Base + 23	#6 Control
Base + 24	Port A #8
Base + 25	Port B #8
Base + 26	Port C #8

has four connectors.

The CIO-TERM100 screw terminal board provides 100 standard 12-22 AWG screw terminals. The CIO-MINI50 provides 50 such terminals. The SSS-RACK24 mounts 24 solid state relays, and the CIO-ERB24 mounts 24 electro-mechanical relays.

Each connector carries 48 digital I/O lines. One 8255 circuit on pins 1-24 and one on pins 25-48. Each 8255 has 24 I/O lines. The chip is configured as three ports. Two ports, A & B, are 8-bits wide, while 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.

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)

To Order (Specify Model Number)

Model No.	Price	Description
CIO-DIO192	$199	192 channel digital I/O board
CIO-TERM100	149	100 channel 16" x 4" screw terminal board; requires 2 C5OFF-2 cables
CIO-MINI50	49	50 channel 4" x 4" screw terminal board; requires 1 C5OFF-2 cable
SSR-RACK24	160	24 channel solid state relay mounting rack
CIO-ERB24	199	24 channel electro-mechanical relay board; requires 1 C5OFF-2 cable
C50FF-2	25	50-conductor connection cable, 2 ft
UNIV-DRVR	49	Universal Drivers for DOS, Windows 3.1 & 95
CIO-LABVIEW-DRVR	49	Labview Drivers (requires UNIV-DRVR)

Ordering Example: CIO-DIO192 digital I/O board with four CIO-MINI50 terminal panels and four C50FF-2 cables, $199 + 4@(49) + 4@(25) = **$495**.