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

CIO-DIO192 shown smaller than actual size.

CIO-DIO192

3 YEAR WARRANTY

✔ **192 TTL Digital I/O Lines**
✔ **Each 50-Pin Connector Carries 48 Digital Lines Plus Power**
✔ **LabVIEW Drivers Available**

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 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.

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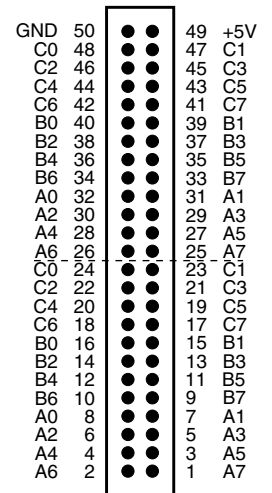
The CIO-TERM100 screw terminal board provides 100 standard 12-22 AWG screw terminals. The CIO-MINI50 provides 50 such terminals. The SSS-RACK24 mounts 24 solid state relays, and the CIO-ERB24 mounts 24 electro-mechanical relays.

Each of the four connectors on the CIO-DIO192 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.
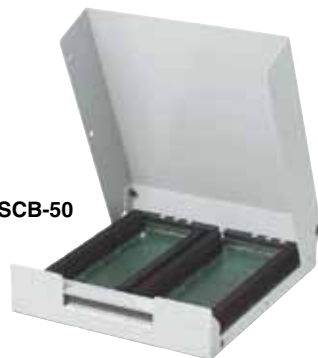
Software

For those developing their own programs a software driver library is available. The Universal Driver Library provides software drivers compatible with most DOS and Windows 3.1/95/98/NT based languages. An optional LabVIEW driver is also available.

CIO-SCB-50

GND	50	●●	49	+5V
C0	48	●●	47	C1
C2	46	●●	45	C3
C4	44	●●	43	C5
C6	42	●●	41	C7
B0	40	●●	39	B1
B2	38	●●	37	B3
B4	36	●●	35	B5
B6	34	●●	33	B7
A0	32	●●	31	A1
A2	30	●●	29	A3
A4	28	●●	27	A5
A6	26	●●	25	A7
C0	24	●●	23	C1
C2	22	●●	21	C3
C4	20	●●	19	C5
C6	18	●●	17	C7
B0	16	●●	15	B1
B2	14	●●	13	B3
B4	12	●●	11	B5
B6	10	●●	9	B7
A0	8	●●	7	A1
A2	6	●●	5	A3
A4	4	●●	3	A5
A6	2	●●	1	A7

PCI-DIO192 Connector Diagram

To Order

Model No.	Description
CIO-DIO192	192 channel digital I/O board
CIO-TERM100	100 channel 16 x 4" screw terminal board; requires 2 C50FF-2 cables
CIO-MINI50	50 channel 4 x 4" screw terminal board; requires 1 C50FF-2 cable
CIO-SCB-50	50 conductor, shielded signal connection box
SSR-RACK24	24 channel solid state relay mounting rack
CIO-ERB24	24 channel electro-mechanical relay board; requires 1 C50FF-2 cable
C50FF-2	50-conductor connection cable, 2 ft
UNIV-DRVR	Universal Driver Library
CIO-LABVIEW-DRVR	LabVIEW Driver