

DATA ACQUISITION PLUG-IN CARDS

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



CIO-DIO192 shown smaller than actual size.

CIO-DIO192



- ✓ 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.

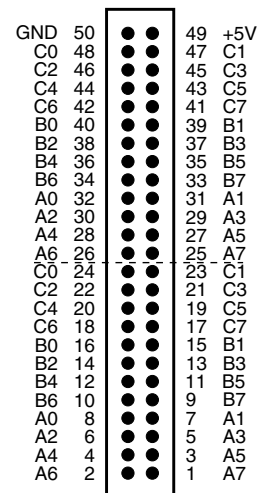
The CIO-TERM100 screw terminal board provides 100 standard 12-22 AWG screw terminals. The CIO-MINI50 provides 50 such terminals. The SSS-RACK24 mounts 24 solid state relays, and the CIO-ERB24 mounts 24 electro-mechanical relays.

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.

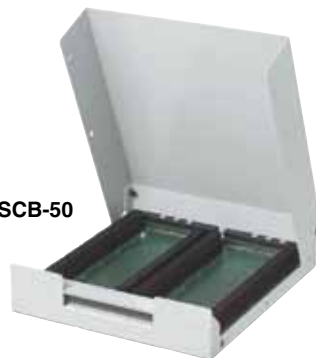
Software

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.



PCI-DIO192 Connector Diagram

CIO-SCB-50



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

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

Ordering Example: CIO-DIO192 digital I/O board with CIO-MINI50 terminal panels and OMEGACARESM 1-year extended warranty for CIO-DIO192 (adds 1 year to standard 3-year warranty), C50FF-2 cables.