CIO-DIO48 and CIO-DIO48H

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















Carries All 48 Digital Lines plus Power

The CIO-DIO48 can control 48 devices or sense 48 contact closures from a single half-size card in a pc. The CIO-DIO48 employs two 8255 parallel peripheral interface chips which are pro-grammable in three modes; simple byte input or output or strobed I/O. The 8255 is simple to program. The CIO-DIO48 can provide 2.5 mA to activate other chips, but not enough for LED's or relays. The CIO-DIO48H can source 15 mA or source 64 mA, enough for switching most relays and SSR's. 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.

The CIO-DIO48 is a member of a family of digital I/O boards which use a 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.

Base Address

To program and control the DIO board, the PC writes to and reads from the I/O address assigned to the board. The DIO boards' address is set by selecting a base address via the base switch.

Cabling and Connection

Cabling to the CIO-DIO48 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-MINI50 provides 50 12 to 22 AWG screw terminals. The CIO-SPADE50 provides terminals for 50 spade type connections. The SSR-RACK24 mounts 24 solid state relays, and the CIO-ERB24 mounts 24 electro-mechanical relays.

Specifications

TTL Output High: 3.0 V min @ -2.5 mA

TTL Output Low: 0.4 V max

@2.5 mA

TTL Input High: 2.0 V min, 7 V max

TTL Input Low: -0.5 V min,

0.8 V max

Current Drive: CIO-DIO48 (source or sink): 2.5 mA CIO-DIO48H (source): 15 mA; (sink): 64 mA

Power: +5 V @ 100 mA typ,

200 mA max

Operating Ambient: 0 to 50°C (32 to 122°F); 0 to 90% RH, non-condensing

Storage Ambient: -20 to 70°C

(-4 to 158°F)

Weight: 142 g (5 oz)

ALL MODELS AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
CIO-DIO48	\$189	48 channel digital I/O board
CIO-DIO48H	269	48 channel high drive digital I/O board
CIO-MINI50	69	50 channel 4" x 4" screw terminal board, requires cable
CIO-SPADE50	149	50 channel 16" x 4" spade lug terminal board, requires cable
CIO-SCB-50	199	50 conductor, shielded signal connection box
SSR-RACK24	149	24 channel solid state relay mounting rack, requires cable and solid state relays (see section H)
CIO-ERB24	249	24 channel electro-mechanical relay board, requires cable
C50FF-2	25	50-conductor connection cable, 2 ft
UNIV-DRVR	49	Universal Driver Library for DOS and Windows
CIO-LABVIEW- DRVR	49	LabVIEW Driver

Ordering Example: CIO-DIO48H digital I/O board with CIO-MINI50 terminal panel and C50FF-2 cable and OMEGACARESM 1 year extended warranty (adds 1 year to standard 3 year warranty), \$269 + 69 + 25 + 25 = \$388.

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