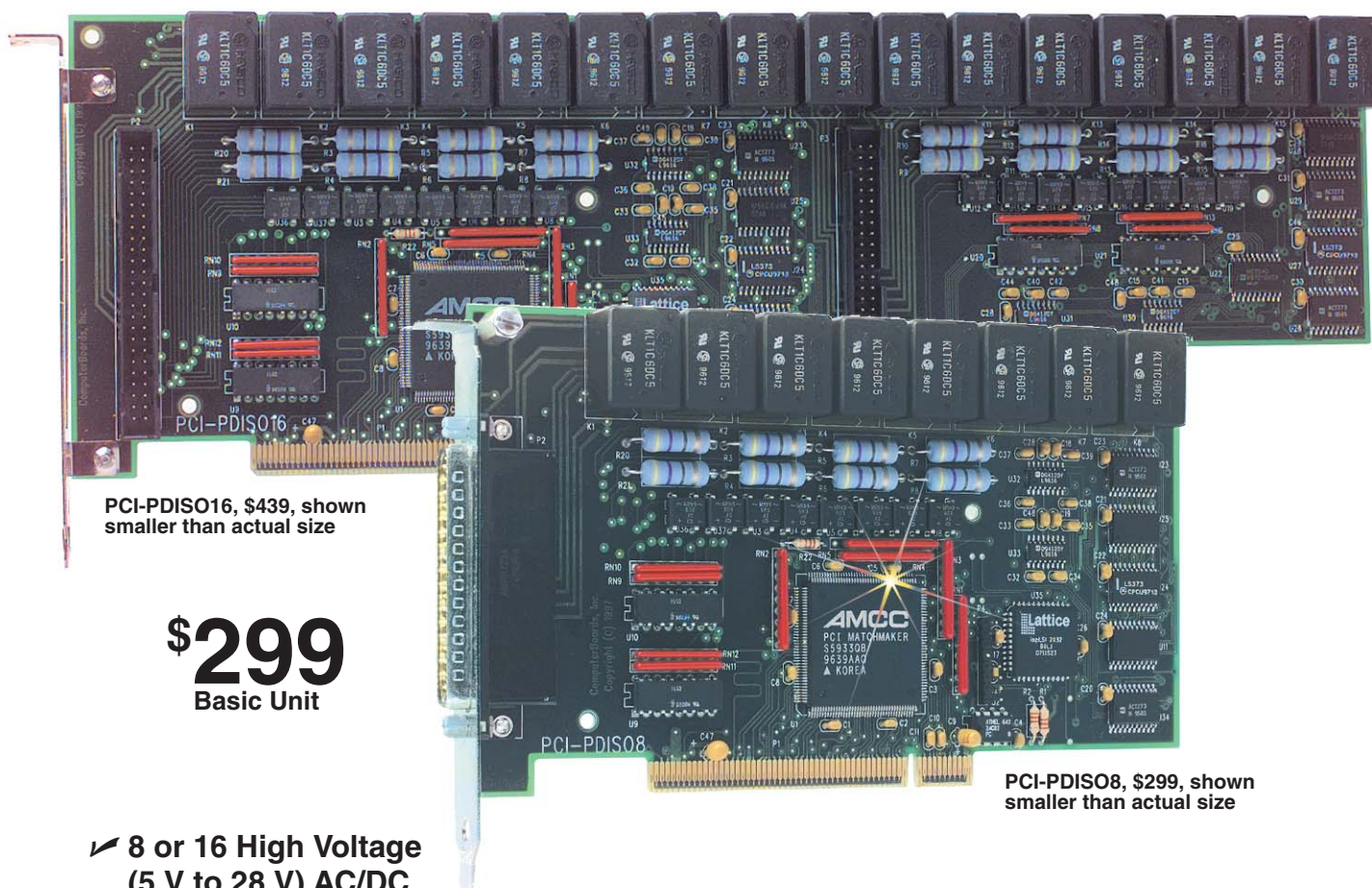# PCI-PDISO8 and PCI-PDISO16
8- and 16-Channel High Voltage, High Current Digital I/O Boards for the PCI Bus

PCI-PDISO16, $439, shown smaller than actual size

$**299**
Basic Unit

PCI-PDISO8, $299, shown smaller than actual size

- ✔ **8 or 16 High Voltage (5 V to 28 V) AC/DC Digital Input Channels**
- ✔ **3 Amp, 120 Vac Relay Output Control**
- ✔ **Fully Plug-and-Play**

The PCI-PDISO16 and PCI-PDISO8 combine isolated AC or DC inputs and electromechanical relays on a single PCI-bus compatible board, for IBM or compatible PC's. The PCI-PDISO16 provides sixteen 24 V AC or DC inputs and sixteen form C, 3-Amp relays.

The PCI-PDISO8 offer7s eight 24 V AC or DC and eight 3-Amp relay outputs (five form C, three form A). A software enabled input filter is available on all channels.

The boards are fully connector compatible with their ISA counterparts (CIO-PDISO16 and CIO-PDISO8). Both boards are also completely plug-and-play. There are no switches or jumpers on the board. All board addresses, interrupt channels, etc., are set by your computer's plug-and-play software.

Screw Terminal Boards
The PCI-PDISO16 board is compatible with the CIO-MINI50 via the C50FF-2 cable, while the PCI-PDISO8 is compatible with the CIO-MINI37 via a C37FF-2 cable. OMEGA cautions against the use of screw terminal boards in high voltage applications unless specific and professionally designed precautions are taken to avoid the possibility of accidental contact with hazardous high voltage signals.

Software Support
The PCI-PDISO series is supplied with InstaCal software for configuration and testing. It is also supported by the optional Universal Library. The Universal Library is a set of I/O libraries and drivers for users creating their own custom programs.

The Universal Library is compatible with most DOS and Windows (16-bit and 32-bit) based languages (DLL and VXD) and supports the entire CIO family of boards. The Library includes an extensive set of programming examples written in Visual Basic, C and Pascal for DOS, Windows 3.1, Windows 95 and Windows NT. An optional driver for LabVIEW is also available.

Specifications

RELAY OUTPUTS

Contact Configuration:

PCI-PDISO16: 16 form C

PCI-PDISO16: 5 form C,
3 form A (NO)

Contact Rating: 3 A @ 120 Vac
or 28 Vdc resistive

Contact Type: Gold overlay silver

Contact Resistance: 100
milliohms max

Operate Time: 20 milliseconds

Release Time: 10 milliseconds
max

Vibration: 10 to 55 Hz
(Dual amplitude 1.5 mm)

Dielectric Isolation: 500 V
(1 minute)

Life Expectancy: 10 million
mechanical operations, min

ISOLATED INPUTS

PCI-PDISO16: 16

PCI-PDISO8: 8

DC input ranges: V_{in} low,
1.8 V, max; V_{in} high, 5 V, min

AC input ranges (50 to 1000 Hz):
V_{in} low, 1.8 V_{p-p}, max; V_{in} high,
5.0 V_{p-p}, min

Max input voltage: 28 Vdc
or 28 VRMS (50 to 1000 Hz)

Isolation: 500 V

Resistance: 1.6 KΩ min

Response w/o filter: 20 μs
(without filter), 5 ms (with filter)

Filter Control: Individually
programmable, filters disabled
on power-up/reset

POWER CONSUMPTION (+5 V)

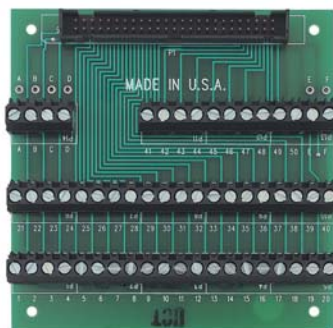**PCI-PDISO16:** 0.7 A, all relays
OFF, 2.0 A, all relays ON

PCI-PDISO8: 0.4 A, all relays OFF,
1.0 A, all relays ON

ENVIRONMENTAL

Operating temperature:
0 to 50°C (32 to 122°F)

Storage temperature:
-20 to 70°C (-4 to 158°F)

Humidity: 0 to 90%
non-condensing

**CIO-MINI50, $69, terminal panel
show smaller than actual size**

**CIO-MINI37, $69, terminal panel
show smaller than actual size**

PCI-PDISO16 50-Pin Connector

PCI-PDISO8 37-Pin Connector

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model Number	Price	Description
PCI-PDISO16	$439	16-channel PCI-bus compatible high voltage (AC or DC) input board with 16 electromechanical relays
PCI-PDISO8	299	8-channel PCI-bus compatible high voltage (AC or DC) input board with 8 electromechanical relays
CIO-MINI50	69	50-pin screw terminal board (for PCI-PDISO16)
C50FF-2	25	50-pin ribbon cable, 0.6 m (2') long (for PCI-PDISO16)
CIO-MINI37	69	37-pin screw terminal board (for PCI-PDIS08)
C37FF-2	25	37-pin ribbon cable, 0.6 m (2') long (for PCI-PDISO8)
UNIV-DRVR	49	Universal Software Library (DOS, Windows 3.1, Windows 95, Windows 98 and Windows NT)
CIO-LABVIEW-DRVR	49	LabVIEW driver

The PCI-PDISO series comes with InstaCal testing software and complete operator's manual OMEGACARE[SM] extended warranty is available for models shown on this page. Ask your sales representative for full details when placing orders.

Ordering Example: PCI-PDISO16 *card,* **CIO-MINI50** *screw terminal panel,* **C50FF-2** *cable,* OMEGACARE[SM] *1-year extended warranty for* **PCI-PDISO16** *(adds 1 year to standard 3-year warranty) and* **UNIV-DRVR** *Universal Software Library, $439 + 69 + 25 + 35 + 49 =* **$617.**

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