

# PCI Bus 144-Bit DIO Board

OME-PIO-D144



OME-PIO-D144 shown smaller than actual size.

- 144 Digital I/O Lines Buffered on the Board
- Connect Directly to OME-DB-24 Series Compatible Daughter Boards
- Emulates Industrial Standard 8255 Mode 0
- Programmable Interrupt Handling
- Five 50-Pin Flat Cable Connectors & One 37-Pin D-Sub Connector
- Output Status Readback
- High Output Driving Capability
- No Base Address or IRQ Switches to Set
- 4 interrupt Sources: PC0, PC1, PC2, PC3

The OME-PIO-D144 provides 144 TTL digital I/O lines. The OME-PIO-D144 consists of eighteen 8-bit bi-directional ports (3 ports on each connector). The 8-bit ports on each connector are port A (PA), port B (PB), and port (PC).

Each 8-bit port can be independently set as input or output. All ports are configured as inputs upon power-up or reset. The OME-PIO-D144 has one D-Sub connector and five 50-pin flat cable connectors. Each header can connect to a 50-pin flat cable. The flat cable can be connected to OME-ADP-37/PCI or OME-ADP-50/PCI adapter which can be fixed on the computer chassis. It can be installed in a 5V PCI bus and supports true "Plug and Play".

## Software Development Kit

All boards are supplied with a standard software development kit for Windows XP/Vista/7. The software development kit includes dll files for programming in C, C++ or other high level languages and OCX files for Visual Basic or Active X programming. LabView drivers are also included.

## Specifications

**ALL INPUTS AND OUTPUTS ARE TTL-COMPATIBLE**  
**Logic High Voltage:** 2.4V (min)  
**Logic Low Voltage:** 0.8V (max)  
**Sink Current:** 64 mA (max)  
**Source Current:** 32 mA (max)  
**4 Interrupt Sources:** CON1, PC0, PC1, PC2, PC3

**Operating Temperature:** 0 to 60°C (32 to 140°F)

**Storage Temperature:** -20 to 80°C (-4 to 176°F)

**Humidity:** 0 to 90% RH non-condensing

**Dimensions:** 105 H x 180 mm W (4.1 x 7.1")

**Power Consumption:** +5V @ 1100 mA



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

## To Order

Model Number	Description
OME-PIO-D144	PCI bus 144-bit DIO board
OME-DB24PD	24-channel relay board with 37-pin D-Sub connector, includes 1 m (3') 37-pin D-Sub connector cable (OME-CA-3710)
OME-DB-24RD/12	24-channel relay board (12V) with 37-pin D-Sub connector, includes 1 m (3') 37-pin D-Sub connector cable (OME-CA-3710)
OME-DB-24PRD/12	24-channel power relay board (12V) with 37-pin D-Sub connector, includes 1 m (3') 37-pin D-Sub connector cable (OME-CA-3710)
OME-DB-24POR	24-channel photo mos relay output board with 1.5 m (5') 50-pin flat cable (OME-CA-5015)
OME-DB-24SSR	24-channel solid state relay output board with 1.5 m (5') 50-pin flat cable (OME-CA-5015)
OME-DB-24C	24-channel open-collector output board with 1.5 m (5') 50-pin flat cable (OME-CA-5015)
OME-ADP-37/PCI	50-pin extender to OME-DB-37 (PCI bus)
OME-ADP-50/PCI	50-pin extender (PCI bus)

Comes complete with utility software and user's manual on CD-ROM.

**Ordering Example:** OME-PIO-D144 PCI bus 144-bit opto-22 board and OCW-1, OMEGACARE<sup>SM</sup> 1 year extended warranty for OME-PIO-D144 extends standard 1-year warranty to a total of 2 years.