# PCI Bus 144-Bit DIO Board

**OME-PIO-D144**



✔ **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: PCO, PCI, 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.

**OME-PID-D144 shown smaller than actual size.**

## 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

## 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) |