

# 48-Bit DIO Boards with Counter/Timer for PCI Bus and PCI Express Bus

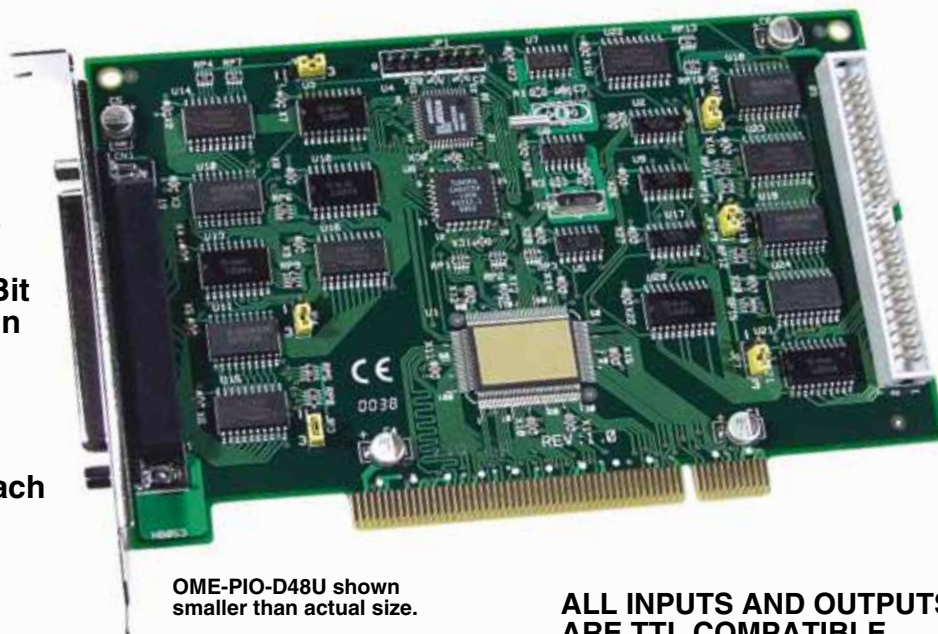
OME-PIO-D48U/  
OME-PEX-D48



- ✓ 48 Digital I/O Channels Buffered on the Board
- ✓ Two Bi-Directional 24-Bit Ports (One D-Sub 37-pin Connector, One 50-pin Flat Connector)
- ✓ Eight-Bit Groups Independently Selectable for I/O on each 24-Bit Port
- ✓ Connects Directly to OME-DB-24P Daughter Boards
- ✓ Emulates Two Industrial-Standard 8255 Mode 0
- ✓ One 32-Bit Programmable Internal Timer
- ✓ One 16-Bit Event Counter
- ✓ Interrupt Source: 4 Channels
- ✓ Pull-Up or Pull-Down Resistors on I/O Lines
- ✓ High Output Driving Capability

The OME-PIO-D48U and OME-PEX-D48 provide 48 TTL digital I/O lines and consists of six 8-bit bi-directional ports. The OME-PIO-D48U has one 24-bit digital I/O port that is accessed via the 37-pin D-Sub connector and a second 24-bit digital I/O port that is accessed via the 50-pin flat cable connector. The 8-bit ports on each connector are named port A (PA), port B (PB) and port C (PC).

All ports are configured as inputs upon power-up or reset. The 50-pin header can be connected 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. The OME-PIO-D48U can be installed in a 3.3 V or 5 V PCI bus and supports true "Plug & Play". The OME-PEX-D48 can be installed in a PCI Express x 1 bus.



OME-PIO-D48U shown smaller than actual size.

## 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. The OME-PEX-D48 can be installed in a PCI Express x 1 bus.

## 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)

**Power:** +5V @ 900 mA

## ENVIRONMENTAL

**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 156 mm W (4.1 x 6.1")

## Specifications

**PCI BUS TYPE:**

**OME-PIO-D48U:** 3.3V/5V universal

**OME-PEX-D48:** PCI Express x 1

## To Order

Model No.	Description
<b>OME-PIO-D48U</b>	PCI bus 48-bit DIO board
<b>OME-PEX-D48</b>	PCI Express bus 48-bit DIO board
<b>OME-DB-24P</b>	24-channel isolated D/I board with 1.5 m (5') 50-pin flat cable
<b>OME-DB-24PR/12</b>	24-channel power relay board (12V)
<b>OME-DB-24POR</b>	24-channel photo mos relay output board with 1.5 m (5') 50-pin flat cable
<b>OME-DB-24SSR</b>	24-channel solid state relay output board with 1.5 m (5') 50-pin flat cable
<b>OME-DB-24C</b>	24-channel open-collector output board with 1.5 m (5') 50-pin flat cable
<b>OME-DB-24R/12</b>	24-channel relay board (12V)
<b>OME-ADP-37/PCI</b>	50-pin extender to OME-DB-37 (PCI bus)
<b>OME-ADP-50/PCI</b>	50-pin extender (PCI bus)