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# **PCI Relay Output Board**

# PCI-P16P0R16

## 16-channel isolated digital input & 16-channel PhotoMOS relay output board



#### **Features**

- 32-bit +5V PCI Bus , Plug & Play
- 16-channel PhotoMOS relay output
- 16-channel optical isolated digital input
- AC/DC signal input
- AC signal input with filter
- On-board LED indication for output status

### **Functional Description**

The PCI-P16POR16 provides 16-channel optically isolated input and 16-channel PhotoMOS relay output. The PCI-P16POR16 has one 37-pin D-Sub connector and one 40-pin header. The 40-pin to DB-37 flat-cable can be fixed on the case wall.

#### **Applications**

- Factory automation
- Laboratory automation
- Communication switching
- Industrial automation

## **Specifications**

## 16 Isolated Digital Input

• Type: non-polarized OPTO-Isolated

Isolated voltage: 5000VPhoto-coupler: PC-814

• Input current: 20 mA max (24V)

Input voltage: AC/DC 5-24V (AC 50~1KHz)

Input impedance: 1.2KΩ / 1W
Withstanding voltage: 1KV
Response time: 20 µ S (without filter)

2.2mS (with filter)

## 16 Isolated Digital Output

• Type: PhotoMOS relay

• Turn on time: Ton =0.7ms (typical)

• Turn off time: Toff=0.05ms (typical)

• Output: on resistance =23  $\Omega$  (typical)

Load voltage: 350V (Peak AC)

Continuous load current: 0.13A

Peak load current: 0.3A

Maximun switching power: 300mW

Output off-state leadage current: 1 
 µ A max

• Input/Output isolation: 5000 V (AC Switching)

#### **General Specifications**

 I/O connector: one 37-pin D-sub and one 40-pin header

Power requirements: +5V@320 mA

Operating temperature: 0 ~ 60°C

• Operating humidity: 0 ~ 90% non-condensing

• Storage temperature: -20 ~ 80°C

• Dimensions: 180 mm x 105 mm

#### **Pin Assignment**

NO_0	1	0		20	COM 0
NO_1 NO_2 NO_3	2 3 4	00000	0000	21 22	COM_1 COM_2
NO_4 NO_5	5 6	000	000	23 24 25	COM_3 COM_4 COM_5
NC_6 NO_7	7 8 9	0	00000	26 27	COM_6 COM_7
DIII 0	10 11	0000		28 29 30	GND DIL 0
DIH_0 DIH_1 DIH_2	12 13 14	000	00000	31 32	DIL_1 DIL_2
DIH_3 DIH_4	15 16	000	0000	33 34 35	DIL_3 DIL_4 DIL_5
DIH_5 DIH_6 DIH_7	17 18 19	000	00	36 37	DIL_6 DIL_7
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## **Ordering Information**

## Standard

PCI-P16POR16:16-channel isolated digital input & 16channel PhotoMOS output board

**Optional** 

DN-37: DIN-rail mounting terminal board DB-37: Direct connection terminal board