

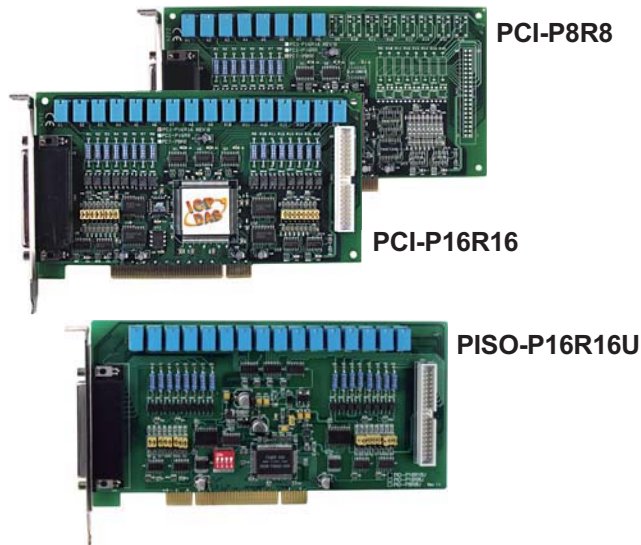
## PCI Relay Output Board

### PCI-P8R8/P16R16

8/16-channel isolated input & 8/16-channel relay output board

### PISO-P16R16U

Universal PCI, 16-channel isolated digital input, 16-channel relay output board



### Features

- 32-bit +5V PCI Bus (PCI-P8R8, PCI-P16R16)
- 32-bit +5V and +3.3V PCI bus (PISO-P16R16U)
- 8/16-channel electromechanical relay output
- 8/16-channel optically isolated digital input
- AC/DC signal input
- AC signal input with filter
- On-board LED indication for relay status
- On-board CardID dip-switch (PISO-P16R16U)

### Functional Description

The PCI-P8R8 provides 8-channel electromechanical relay output and 8-channel optically isolated input. The PCI-P8R8 can be used in various applications including load switching, external switching, contact closure and others. The PCI-P16R16 has one of 37-pin D-Sub & one of 40-pin header connectors and the function is equal to two PCI-P8R8.

The PISO-P16R16U is a universal PCI version of the PCI-P16R16 card, it can be installed in a 5V or 3.3V PCI bus.

### Applications

- Factory Automation
- Laboratory Automation
- Communication Switching

### Specifications

#### Isolated Digital Input

- Channels: 8 (PCI-P8R8); 16 (PCI-P16R16, PISO-P16R16U)
- Type: non-polarized OPTO-Isolated
- Isolated voltage: 5,000V (PCI-P8R8, PCI-P16R16)  
3,750V (PISO-P16R16U)
- Photo-coupler: PC-814 (PCI-P8R8/P16R16);  
PC-354 (PISO-P16R16U)
- Input current: 20 mA max (24V)
- Input voltage: AC/DC 5-24V (AC 50~1KHz)
- Input impedance: 1.2K $\Omega$  / 1W
- Withstanding voltage: 1KV
- Response time: 20  $\mu$  S (without filter), 2.2ms (with filter)

#### Relay Output

- Channels: 8 (PCI-P8R8); 16 (PCI-P16R16, PISO-P16R16U)
- Contact rating: 120VAC@0.5A; 24VDC@1.0A
- Breakdown voltage: 1KV
- Operating Time: 5ms (PCI-P8R8/P16R16)  
Typical 1 ms (PISO-P16R16U)
- Release time: 2ms (PCI-P8R8/P16R16)  
Typical 7 ms (PISO-P16R16U)
- Insulation resistance: 1,000 M $\Omega$
- Life: mechanical (5 millions) ; electrical (1 millions)
- Switching power: 60VA, 24W

### General Specifications

- I/O connector:  
One 37-pin D-Sub female (PCI-P8R8)  
One 37-pin D-Sub & one 40-pin header (PCI-P16R16, PISO-P16R16U)
- Power requirements:

Device	PCI-P8R8	PCI-P16R16
+5V	500 mA	800 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	○	20	NO_3
COM_0	2	○	21	COM_3
NC_0	3	○	22	NC_3
NO_1	4	○	23	NO_4
COM_1	5	○	24	COM_4
NC_1	6	○	25	NO_5
NO_2	7	○	26	COM_5
COM_2	8	○	27	NO_6
NC_2	9	○	28	COM_6
NO_7	10	○	29	GND
COM_7	11	○	30	DIL_0
DIH_0	12	○	31	DIL_1
DIH_1	13	○	32	DIL_2
DIH_2	14	○	33	DIL_3
DIH_3	15	○	34	DIL_4
DIH_4	16	○	35	DIL_5
DIH_5	17	○	36	DIL_6
DIH_6	18	○	37	DIL_7
DIH_7	19	○		

### Ordering Information

#### Standard

- PCI-P8R8:** 8-channel isolated digital Input & 8-channel relay output board
- PCI-P16R16:** 16-channel isolated digital Input & 16-channel relay output board
- PISO-P16R16U:** Universal PCI, 16-channel isolated digital input & 16-channel relay output board

#### Optional

- DN-37:** DIN-rail mounting terminal board
- DB-37:** Directly connection terminal board