

PCI-P16C16

PCI Bus, 16-ch isolated digital input and 16-ch open-collector output Board (Sink, NPN)











Features >>>

- PCI Bus (5 V) interface
- 16-ch optically isolated digital input
- 16-ch open collector digital output
- Selectable DC signal input filter

- AC Signal input with filter
- External power status LED indicator
- Supports Plug & Play to obtain I/O resources
- No more manually settings of I/O address and IRQ

Introduction

The PCI-P16C16 is a 5 V PCI card that support "Plug & Play" functionality to automatically obtain I/O resources from the BIOS. This card contains 16 optically isolated digital input channels and 16 open collector (sink, NPN) digital output channels. The DI channels provide 5000 Vrms isolation protection that allows the input signals to be completely floated so as to prevent ground loops and isolate the host computer from damaging voltages. The open collector output (DO) channels are typically used for alarm and warning notification, control of signal output, control of external circuits that require a higher voltage level, and signal transmission applications, etc. The PCI-P16C16 contains a single DB-37 connector and a single 40-pin box header and includes a 40-pin to DB-37 flat cable for easy wiring.

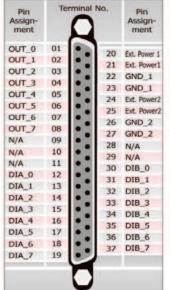
Software

- DOS Lib and TC/BC/MSC sample program (with source codes)
- VB/VC/Delphi/BCB/VB.NET/C#.NET/VC.NET/MATLAB sample programs with source codes
- DLL and OCX SDK for 32-bit/64-bit Windows XP/2003/Vista/2008/7/8
- Support LabVIEW and Linux

Hardware Specifications -

Digital Input					
Isolation Voltage	5000 Vrms (Photo-couple)				
Channels	16				
Input Logic Low	0~1 V				
Input Logic High	5~24 V (AC 50 ~ 1 kHz)				
Input Impedance	1.2 KΩ, 1 W				
Digital Output					
Isolation Voltage	5000 Vrms				
Channels	16				
Compatibility	Sink, Open Collector				
Output Capability	DC: 600 mA/+30 V for one channel @ 100%				
Оптрит Саравінту	duty				
General					
Bus Type	5 V PCI, 32-bit, 33 MHz				
Connectors	Female DB37 x1;				
	40-pin box header x1				
Power Consumption	800 mA @ +5 V				
Operating Temperature	0 °C ~ +60 °C				
Storage Temperature	-20 °C ~ +70 °C				
Humidity	5 ~ 85% RH, non-condensing				

Pin Assignments



CON1

Pin Assign- ment	Terminal No.				Pin Assign- ment
DO_8	01	0	0	02	Ext. Power3
DO_9	03	0	0	04	Ext. Power3
DO_10	05	0	0	06	GND3
DO_11	07	0	0	08	GND3
DO_12	09	0	0	10	Ext. Power4
DO_13	11	0	0	12	Ext. Power4
DO_14	13	0	0	14	GND4
DO_15	15	0	0	16	GND4
N/A	17	40	0	18	N/A
N/A	19	0	0	20	N/A
N/A	21	40	0	22	DIB_8
DIA 8	23	0	0	24	DIB 9
DIA_9	25	0	0	26	DIB_10
DIA_10	27	0	0	28	DIB_11
DIA_11	29	0	0	30	DIB_12
DIA 12	31	0	0	32	DIB_13
DIA_13	33	0	0	34	DIB_14
DIA 14	35	0	0	36	DIB 15
DIA 15	37	0	0	38	N/A
N/A	39	0	0	40	N/A
		CO	N2		

Ordering Information

PCI Bus, 16-ch isolated digital input and 16-ch open-collector output (Sink, NPN).
Includes one CA-4037W cable and two CA-4002 D-Sub connectors.