



DESCRIPTION

The **PCI-763** is a reed-relay board for the control of 16 or 32 external devices. An external signal-conditioned optically-isolated interrupt line is also provided for automatic relay shutdown/startup. 16 Channels of Digital Inputs and 16 Channels of Digital Outputs allow for monitoring and/or driving TTL compatible loads.

FEATURES

- 16 or 32 channel SPST Reed-Relay Contacts
- 4200V (max.) Isolation Voltage
- Relay switching speed up to 0.5mS
- Load switching up to 20W
- Optically isolated input trigger line
- 16 Digital Output & 16 Digital Input lines
- Windows98/ME/2000/XP OS Support (NT on request)
- Linux OS Support
- Labview, Testpoint and VEE Pro Drivers
- PCI-bus revision 2.2 compliant

Ordering Information

Supplied with EDR Enhanced Software and Internal Cable for Digital I/O and Relays (17-32) (converts from IDC40 to DB37)

PCI-763-16	16 Channel PCI Reed Relay Board with 16 Digital I/O Lines
PCI-763-32	32 Channel PCI Reed Relay Board with 16 Digital I/O Lines

Specifications

Reed Relay Characteristics

Number of channels:	16 or 32
Relay Contact Data	
Contact Form:	Form A (SPST)
Rated Power:	20W (max)
Switching Voltage:	200VDC (DC or peak AC)
Switching Current:	1A (max) (DC or peak AC)
Carry Current:	1.25A (DC or peak AC)
Contact Resistance:	0.15 Ohm (Static); 0.2 Ohm (Dynamic)
Breakdown Voltage:	320 VDC (min) (Across Contacts)
	4200 VDC (min) (Contact to Coil)
Switching Time:	0.5mS
Release Time:	0.1mS

Optically Isolated Trigger Input

Number of Inputs:	1
Frequency Response:	< 10kHz (Computer and software dependent)
Logic Levels:	0V to 3V: Logic 0
	3.1V to 24V: Logic 1
Isolation Voltage:	450Vrms
Maximum Reverse Voltage:	50V
Input Current:	Continuous: 30mA
	Peak: 1A (Pulse 300mS, 2% Cycle)
Max forward current [LED]:	50mA

Digital I/O

No of TTL I/O lines:	16 Digital Inputs, 16 Digital Outputs
Digital Logic Levels:	High: 2.0V (min), 5.3V max
	Low: 0.0V (min), 0.8V (max)
Current Output:	20mA (open collector outputs)
8255 PPI Support:	Mode 0
Frequency Response:	20MHz

External Interface

1-16 channels Reed Relay:	DB37 Female
17-32 channels Reed Relay:	IDC40 Header #1
Digital I/O:	IDC40 Header #2

Environmental / Physical

Operating Temp:	0°C to 70°C
Board Dimensions:	182 mm x 9 mm

Power Requirements

+5V:	450mA typ
+5V:	200mA (external loads)
+12V:	200mA (external loads)

Optional Accessories

ADPT-3740	DB37 (M) & IDC40 (M) to 41way Screw Terminal Adaptor
DB37M/F	DB37 (M) to DB37 (F) Screened Cable
IDC40	40way Ribbon Cable



Supplied with Internal Cable for Digital I/O (IDC40 to DB37)

DB-37M (Internal)

DI1	20	1	DI0
DI3	21	2	DI2
DI5	22	3	DI4
DI7	23	4	DI6
DI9	24	5	DI8
DI11	25	6	DI10
DI13	26	7	DI12
DI15	27	8	DI14
DGND	28	9	DGND
DO1	29	10	DO0
DO3	30	11	DO2
DO5	31	12	DO4
DO7	32	13	DO6
DO9	33	14	DO8
DO11	34	15	DO10
DO13	35	16	DO12
DO15	36	17	DO14
DGND	37	18	DGND
	19	+5V	