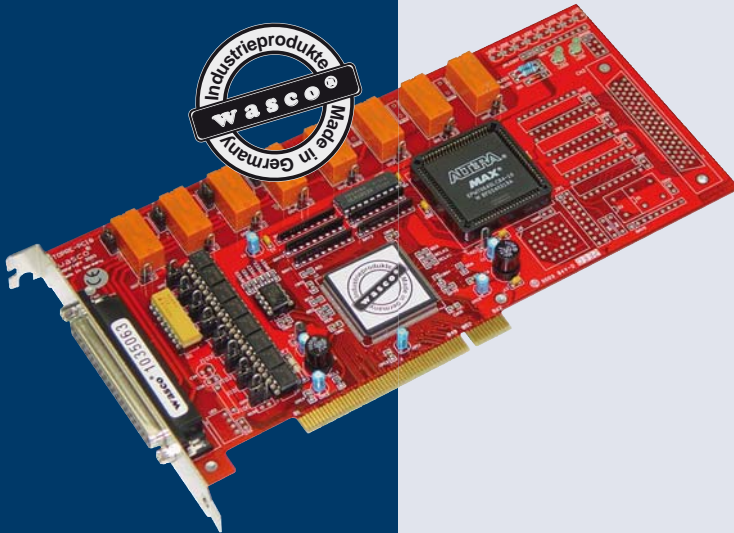


OPTOPRE-PCI8_{STANDARD}

Digital PCI I/O Interface Card with Eight Optocoupler Inputs and Eight Relay Outputs



8 optocoupler inputs

8 relay outputs 2A

SPECIFICATIONS

Digital inputs optocoupler-isolated

Optocouplers: 8 * PC900
 8 channels, galvanically isolated
 Galvanic isolation also between every single channel with each two discrete connections for each of the channels

Overvoltage protection by protection diodes
 Two input voltage levels adjustable by accompanying resistor arrays:

R = 4,7 kOhm: high = 8...30 Volt
 low = 0...4 Volt

R = 1,0 kOhm: high = 2,2...15 Volt
 low = 0...1,5 Volt

Input frequency: max. 10 KHz

Digital outputs by relays

8 channels, galvanically isolated
 Galvanic isolation also between every single channel with each two discrete connections for each of the channels

Relay type: Tyco PE014012

Contact: 1 changeover contact

Switching current: 2 A max.

Switching voltage: max. 50 V AC / 30 V DC

Switching capacity: 100 VA / 60 W

Isolation: Coil/Contact 500 V eff

Mech. lifetime: max. 15 * 10⁶ switching cycles without load

Contact lifetime: 2A, 50V AC, at changeover, max. 10⁵ switching cycles

Operation cycles under load: 6/min max.

Operation cycles without load: 1200/min max.

Circuit time: typ. 5 ms

Dropout time: typ. 2 ms

Bounce time NO contact: typ. 1 ms

Bounce time NC contact: typ. 5 ms

Connectors

1 * 37-pin Sub-D female connector

Bus system

32-bit PCI-Bus
 (internal data bus 16 Bit)

Power consumption

+5V typ. 340mA

+12V typ. 140mA

Dimensions

203 mm x 106,7 mm (l x h)

4layer Multilayer Board

Other

Protection and control LED for power supply of timer and I/O components as well as of logic control.

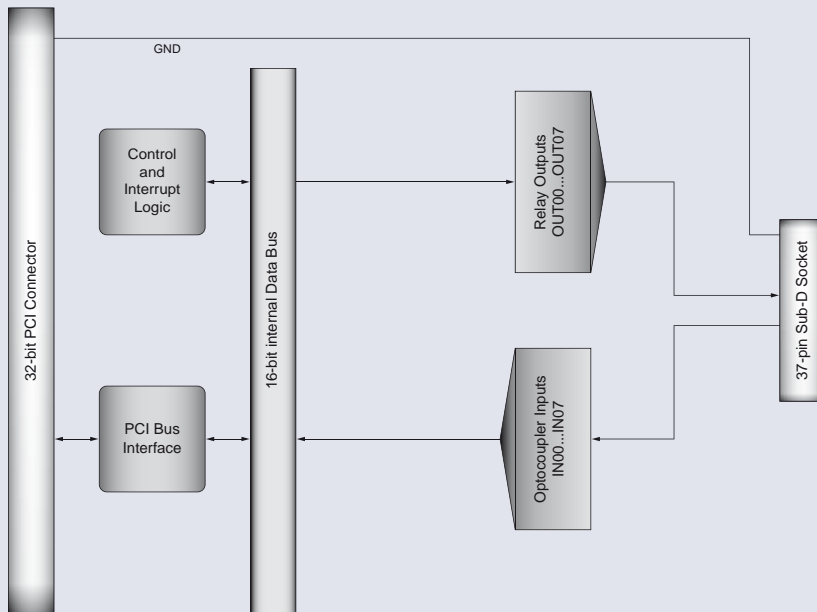
All IC sockets with gold plated contacts

The **wasco**[®]-Interface board OPTOPRE-PCI8_{STANDARD} provides eight digital input lines and eight digital output lines, each of which are galvanically isolated. Inputs are electrically isolated by eight high power optocouplers with integrated Schmitt Trigger function, outputs by eight relays. Additionally the inputs are fitted with protection diodes against harmful voltage peaks.

You can adjust two different input voltage ranges by resistor arrays easily to change and plug in. Output relays manage a switching current of maximum 2 A.

The connections of the input optocouplers and the relay signals are led to a 37-pin Sub-D female connector, which is mounted to a slot bracket.

BLOCK DIAGRAM



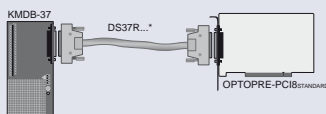
PIN ASSIGNMENT

Anodes and cathodes as well as positive and negative connections of the output relays are led to the 37-pin Sub-D female socket CN1 for each line individually. The ground of the computer also is connected to this plug connector. CN1 is placed at the board's slot bracket, so optimal connections with strain relief to periphery is easily to obtain.

Sub-D Socket CN1

IN07-	37	18	GND
IN06-	36	18	IN07+
IN05-	35	17	IN06+
IN04-	34	16	IN05+
IN03-	33	15	IN04+
IN02-	32	14	IN03+
IN01-	31	13	IN02+
IN00-	30	12	IN01+
OUT07-	29	11	IN00+
OUT06-	28	10	OUT07+
OUT05-	27	9	OUT06+
OUT04-	26	8	OUT05+
OUT03-	25	7	OUT04+
NO_OUT03+	24	6	NC_OUT03+
NC_OUT02+	23	5	OUT02-
OUT01-	22	4	NO_OUT02+
NO_OUT01+	21	3	NC_OUT01+
NC_OUT00+	20	2	OUT00-
		1	NO_OUT00+

CONNECTION TECHNIQUE (APPLICATION EXAMPLES)



* DS37R100DS37 or DS37R200DS37
or DS37R500DS37

PROGRAMMING

The accompanying CD provides drivers for Windows (please visit www.wasco.de to monitor available s/w versions) and sample programs for Turbo-C®, Delphi, Borland C++, C++ Builder, Microsoft Visual Basic, VB.NET, C++ and C#.NET

SCOPE OF DELIVERY

Interface Card OPTOPRE-PC18^{STANDARD}
German Manual (English on Demand)
Driver and program examples on CD

ORDER INFORMATION

OPTOPRE-PC18^{STANDARD} EDP No. A-423600
I/O Card

SUITABLE ACCESSORIES

DS37R500DS37 EDP No. A-202800

Shielded connection line (approx.
5 m) to connect KMDB-37 to a 37pin
Sub-D jack



DS37R200DS37 EDP No. A-202400

Shielded connection line (approx.
2 m) to connect KMDB-37 to a 37pin
Sub-D jack



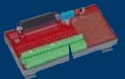
DS37R100DS37 EDP-No. A-202200

Shielded connection line (approx.
1 m) to connect KMDB-37 to a 37pin
Sub-D jack



KMDB-37 EDP No. A-2046

Terminal module with a 37pin screw
terminal block with prototype area
for soldering, to connect to a 37pin
Sub-D jack



KMDB-37S EDP No. A-204910

Terminal module with a 38-pin screw
terminal block to connect to a 37pin
Sub-D jack



For more detailed information about the here listed and other accessories we refer to the corresponding data sheets