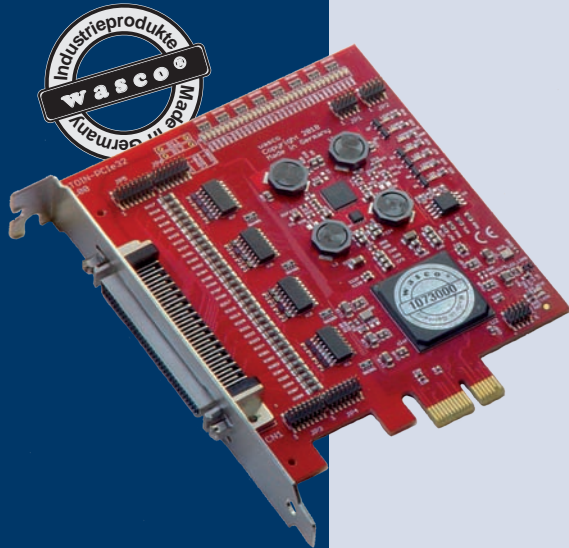


# OPTOIN-PCIe32<sub>STANDARD</sub>

Digital PCIe I/O Interface Card with 32 Optocoupler Inputs and Board Identification



32 optocoupler inputs

board identification

The **OPTOIN-PCIe32<sub>STANDARD</sub>** features 32 digital inputs, every single channel is galvanically isolated by high-quality bipolar optocouplers. Additionally, each input is protected from harmful voltage peaks and pulses by protection diodes. You easily can adjust two different input voltage ranges for each channel individually by setting jumpers

The optocoupler inputs are connected to a 68-pin onboard SCSI-II socket. Furthermore, the card provides a jumper block for card identification in order to distinguish several identical cards in your system.

## SPECIFICATIONS

### Optocoupler Inputs

Optocouplers LTV-244 or compatibles  
32 channels, optically isolated  
Galvanic isolation also between every single channel with each two separate connections for each of the channels  
Overvoltage protection by protection diodes  
Two different jumper selectable input voltage ranges

Range 1      high = 14..30 Volt  
                  low = 0..2 Volt

Range 2:     high = 5..15 Volt  
                  low = 0..1 Volt

Input frequency: max. 10 kHz

### Board Identification

Jumper block with five pairs of contact pins

### Connection plug

1 \* 68-pin SCSI-II socket

### Bus system

32-bit PCIe Bus (16 and 32 bit data access)

### Dimensions of the Board

94 mm x 111 mm (l x b)  
standard height, half length card  
multilayer PCB

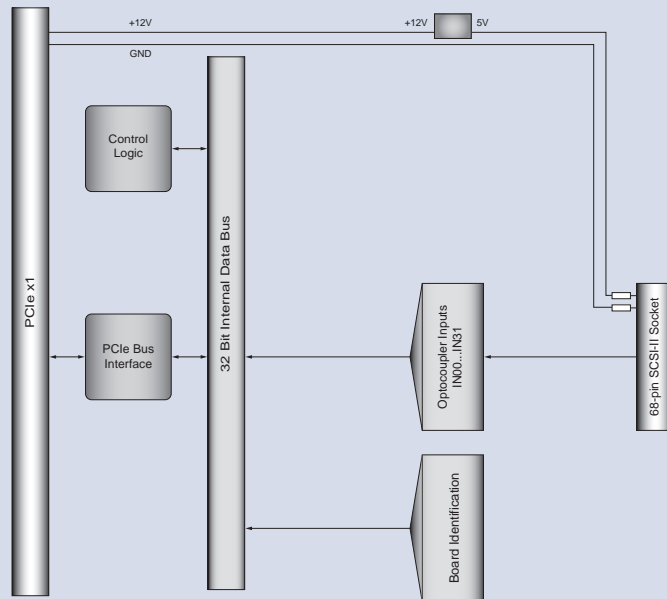
### Other

Control LEDs indicating power supply

## APPLICATIONS

On/off events  
Binary data acquisition  
Process control  
Data acquisition of BCD coded instruments

## BLOCK DIAGRAM



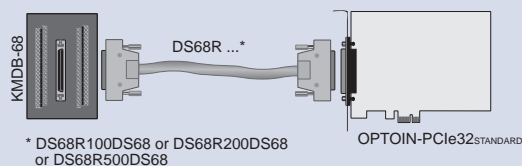
## PIN ASSIGNMENT

Anode and cathode of each input optocoupler is connected to a 68-pin SCSI-II socket CN1 for every channel individually. CN1 is mounted to the board's edge bracket

### SCSI-II socket CN1

GND	68	34	Vcc
GND	67	33	
IN31-	66	32	IN31+
IN30-	65	31	IN30+
IN29-	64	30	IN29+
IN28-	63	29	IN28+
IN27-	62	28	IN27+
IN26-	61	27	IN26+
IN25-	60	26	IN25+
IN24-	59	25	IN24+
IN23-	58	24	IN23+
IN22-	57	23	IN22+
IN21-	56	22	IN21+
IN20-	55	21	IN20+
IN19-	54	20	IN19+
IN18-	53	19	IN18+
IN17-	52	18	IN17+
IN16-	51	17	IN16+
IN15-	50	16	IN15+
IN14-	49	15	IN14+
IN13-	48	14	IN13+
IN12-	47	13	IN12+
IN11-	46	12	IN11+
IN10-	45	11	IN10+
IN09-	44	10	IN09+
IN08-	43	9	IN08+
IN07-	42	8	IN07+
IN06-	41	7	IN06+
IN05-	40	6	IN05+
IN04-	39	5	IN04+
IN03-	38	4	IN03+
IN02-	37	3	IN02+
IN01-	36	2	IN01+
IN00-	35	1	IN00+

## CONNECTION TECHNIQUE (APPLICATION EXAMPLES)



## PROGRAMMING

The accompanying CD provides drivers for Windows (please visit [www.wasco.de](http://www.wasco.de) to check available s/w versions) and sample programs for Delphi, VB.NET, C++ and C#.NET

## SCOPE OF DELIVERY

Interface Card OPTOIN-PCIe32<sup>STANDARD</sup>  
German Manual (English on request)  
Drivers and program examples

## ORDER INFORMATION

OPTOIN-PCIe32<sup>STANDARD</sup>  
EDP No **A-844600**  
Input Card

## SUITABLE ACCESSORIES

**PDB68F33DS68** EDP No **A-498600**  
Flat ribbon cable (approx. 33 cm) to relocate signals from CN2 to a 68-pin SCSI-II socket with slot bracket



**DS68R500DS68** EDP No **A-492800**  
Special twisted and shielded connection cable (approx. 5 m) to connect KMDB-68 or any other KM modules to a 68-pin SCSI-II socket



**DS68R200DS68** EDP No **A-492400**  
Special twisted and shielded connection cable (approx. 2 m) to connect KMDB-68 or any other KM modules to a 68-pin SCSI-II socket



**DS68R100DS68** EDP No **A-492200**  
Special twisted and shielded connection cable (approx. 1 m) to connect KMDB-68 or any other KM modules to a 68-pin SCSI-II socket



**KMDB-68** EDP No **A-494800**  
Terminal module with a 68-pin screw terminal block to connect to a 68-pin SCSI-II socket



**DSS68HLK** EDP No **A-555340**  
68-pin SCSI-II socket with hood for customized solder connection of round cables. The casing is made of die-cast zinc and provides an 180° output with strain relief for the cable routings.



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