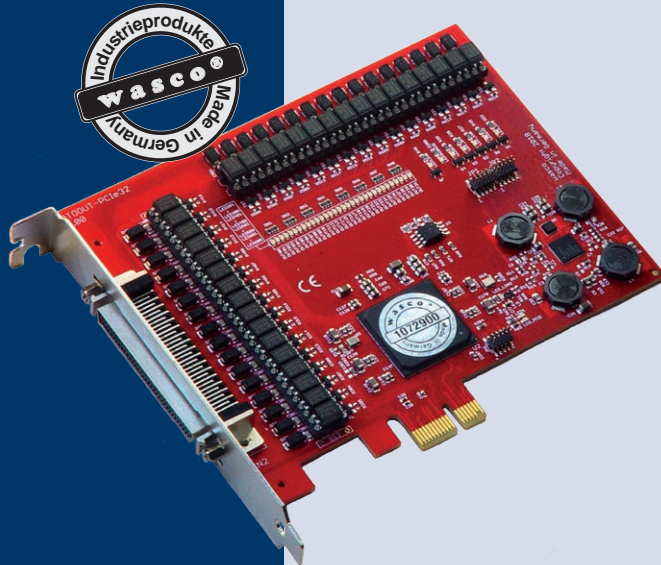# wasco®

OPTOOUT-PCIe32STANDARD

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

32 optocoupler outputs

board identification

The **OPTOOUT-PCIe32STANDARD** features 32 digital outputs, every single channel is galvanically isolated. Special high-power output optocouplers grant the isolation and manage a switching current of up to 150 mA. Additionally, each output is protected from harmful voltage peaks and pulses by protection diodes. The optocoupler outputs 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 Outputs
Optocouplers: 32*PC853 socketed 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
Output current max. 150mA
Output frequency ca 1 KHz
Voltage collector-emitter: max. 50V
Voltage emitter-collector: max. 0,1V

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
131 mm x 111 mm (l x b)
standard height, full length card
multilayer PCB

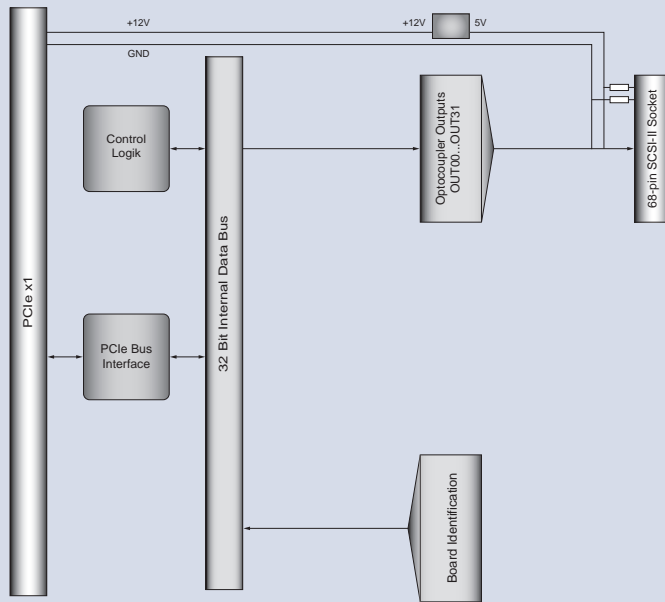**Other**
Control LEDs indicating power supply

APPLICATIONS

On/off events
Process control
Control of external power relays
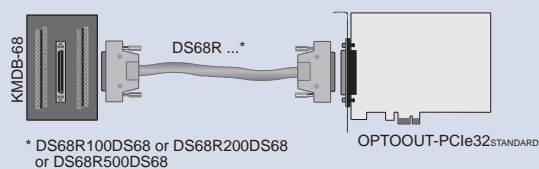
BLOCK DIAGRAM

PIN ASSIGNMENT

Collector and emittor of each output channel is connected to a 68-pin SCSI-II socket CN1 for every channel individually. CN1 is mounted to the board's egde bracket

**SCSI-II socket
CN1**

GND	68 34	Vcc
GND	67 33	Vcc
OUT31-	66 32	OUT31+
OUT30-	65 31	OUT30+
OUT29-	64 30	OUT29+
OUT28-	63 29	OUT28+
OUT27-	62 28	OUT27+
OUT26-	61 27	OUT26+
OUT25-	60 26	OUT25+
OUT24-	59 25	OUT24+
OUT23-	58 24	OUT23+
OUT22-	57 23	OUT22+
OUT21-	56 22	OUT21+
OUT20-	55 21	OUT20+
OUT19-	54 20	OUT19+
OUT18-	53 19	OUT18+
OUT17-	52 18	OUT17+
OUT16-	51 17	OUT16+
OUT15-	50 16	OUT15+
OUT14-	49 15	OUT14+
OUT13-	48 14	OUT13+
OUT12-	47 13	OUT12+
OUT11-	46 12	OUT11+
OUT10-	45 11	OUT10+
OUT09-	44 10	OUT09+
OUT08-	43 9	OUT08+
OUT07-	42 8	OUT07+
OUT06-	41 7	OUT06+
OUT05-	40 6	OUT05+
OUT04-	39 5	OUT04+
OUT03-	38 4	OUT03+
OUT02-	37 3	OUT02+
OUT01-	36 2	OUT01+
OUT00-	35 1	OUT00+

CONNECTION TECHNIQUE (APPLICATION EXAMPLES)

KMDB-68

DS68R ...*

OPTOOUT-PCIe32STANDARD

* DS68R100DS68 or DS68R200DS68
  or DS68R500DS68

PROGRAMMING

Windows®:
Driver and program examples for VB.NET, C++.NET, C#.NET
Linux®:
Driver and program examples for C and C++ (see manual)
on enclosed CD or download at: www.messcomp.com, Section Support - Software

SCOPE OF DELIVERY

Interface Card OPTOOUT-PCIe32STANDARD
German Manual (English on request)
Drivers and program examples

ORDER INFORMATION

OPTOOUT-PCIe32STANDARD
EDP No **A-846600**
Output 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

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