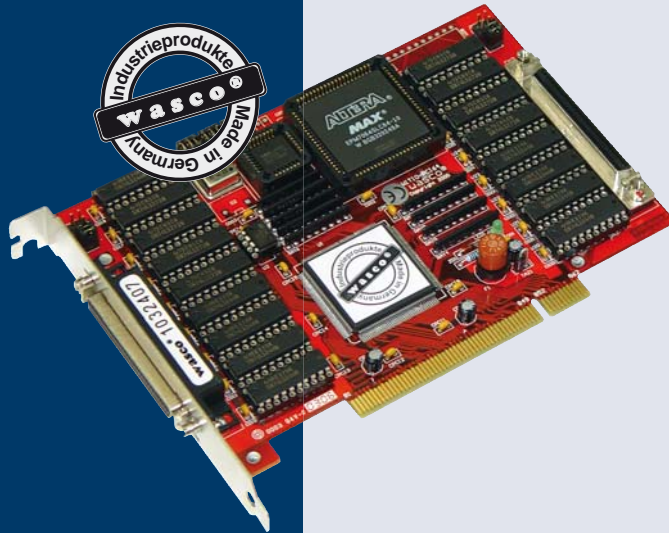


WITIO-PCI64_{EXTENDED}

Interrupt capable, Digital PCI I/O Board with 64 TTL Inputs, 64 TTL Outputs, Timer and Quartz Crystal



64 TTL inputs

64 TTL outputs

3 * 16-bit counter

quartz time based

interrupt capable

WITIO-PCI64_{EXTENDED} features 64 digital inputs and 64 digital outputs, all of which are TTL compatible. The maximum loading capacity amounts to 20 mA. This board is suitable for input and output applications not requiring galvanic isolation. The internal data bus of this board is organized 32 bit, each reading or writing access to the inputs and outputs is implemented by double word access. You can trigger interrupts via eight out of the 64 inputs or time dependently via a timer chip combined with a quartz oscillator. Two 68-pin SCSI-II sockets enable connection to periphery. 32 inputs and 32 outputs are led to each of the two sockets. One of the sockets is mounted to the board's slot bracket, the other one is placed directly onboard. An optional available set of flat ribbon cable with appropriate connectors enables to connect to a SCSI-II socket with slot bracket.

SPECIFICATIONS

TTL Inputs

Channels: 64, TTL compatible
8 channels to be interrupt inputs

TTL Outputs

Channels: 64, TTL compatible
Loading capacity: I_{OH} - 20 mA 2,0 V min.
 I_{OL} 20 mA 0,5 V max.

Timer

IC: 8254 or 71054
3 * 16-bit down counter
Counting frequency max. 8 MHz
Time dependent interrupt trigger
Pulse cycles derived from Quartz oscillator

Quartz oscillator

4 MHz

Connectors

2 * 68-pin SCSI-II socket

Bus System

32-bit PCI Bus (internal data access 32 Bit)

Power Consumption

+ 5V typ. 950 mA

Dimensions

157 mm x 106,7 mm (l x h)
4layer multilayer board

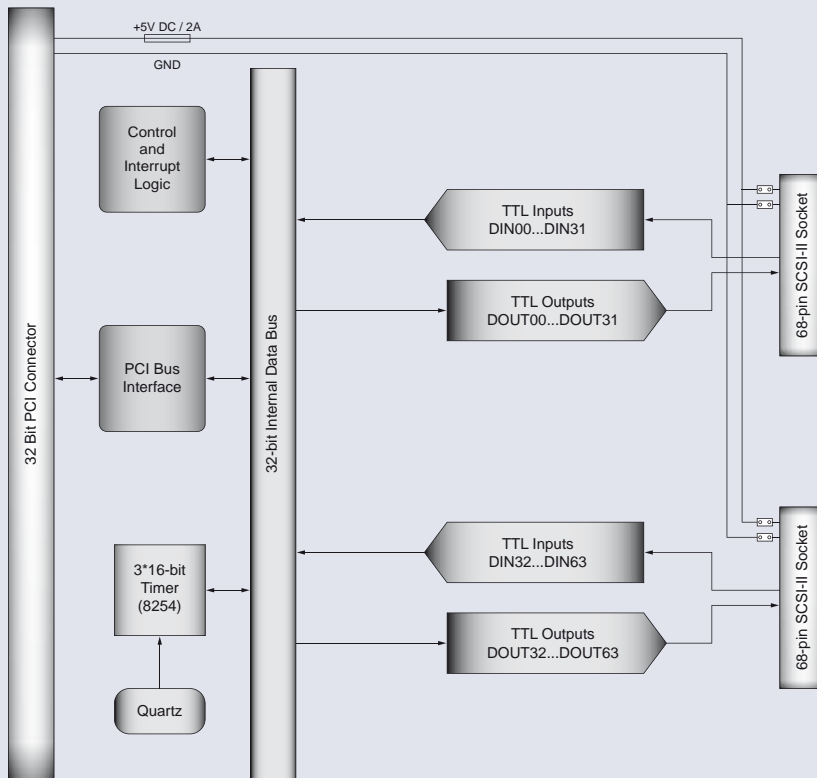
Other

Protection and control LED indicating power supply of timer and I/O components as well as of logic control.
All IC sockets with gold plated contacts

APPLICATIONS

On/off events
Detection of contact states
Binary data aquisition
Process control
Data aquisition of BCD coded instruments
Control of external optocouplers
Control of external power relays

BLOCK DIAGRAM



PIN ASSIGNMENT

The digital inputs and outputs are led to two 68-pin SCSI-II sockets. CN1 is mounted to the board's slot bracket. CN2 is placed onboard and only accessible inside the PC on opening the casing. Optimal and easy connections with strain relief to periphery is to obtain by an optional available flat ribbon cable (see „Suitable Accessories“)

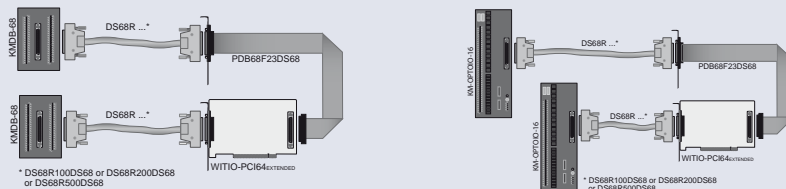
SCSI-II Socket CN1

CN1 GND	1	CN1 VCC	34
CN1 GND	2	CN1 VCC	35
DOUT31	3	DOUT30	36
DOUT29	4	DOUT28	37
DOUT27	5	DOUT26	38
DOUT25	6	DOUT24	39
DOUT23	7	DOUT22	40
DOUT21	8	DOUT20	41
DOUT19	9	DOUT18	42
DOUT17	10	DOUT16	43
DOUT15	11	DOUT14	44
DOUT13	12	DOUT12	45
DOUT11	13	DOUT10	46
DOUT09	14	DOUT08	47
DOUT07	15	DOUT06	48
DOUT05	16	DOUT04	49
DOUT03	17	DOUT02	50
DOUT01	18	DOUT00	51
DIN31	19	DIN30	52
DIN29	20	DIN28	53
DIN27	21	DIN26	54
DIN25	22	DIN24	55
DIN23	23	DIN22	56
DIN21	24	DIN20	57
DIN19	25	DIN18	58
DIN17	26	DIN16	59
DIN15	27	DIN14	60
DIN13	28	DIN12	61
DIN11	29	DIN10	62
DIN09	30	DIN08	63
DIN07	31	DIN06	64
DIN05	32	DIN04	65
DIN03	33	DIN02	66
DIN01	34	DIN00	67

SCSI-II Socket CN2

CN2 GND	1	CN2 VCC	34
CN2 GND	2	CN2 VCC	35
DOUT63	3	DOUT62	36
DOUT61	4	DOUT60	37
DOUT59	5	DOUT58	38
DOUT57	6	DOUT56	39
DOUT55	7	DOUT54	40
DOUT53	8	DOUT52	41
DOUT51	9	DOUT50	42
DOUT49	10	DOUT48	43
DOUT47	11	DOUT46	44
DOUT45	12	DOUT44	45
DOUT43	13	DOUT42	46
DOUT41	14	DOUT40	47
DOUT39	15	DOUT38	48
DOUT37	16	DOUT36	49
DOUT35	17	DOUT34	50
DOUT33	18	DOUT32	51
DIN63	19	DIN62	52
DIN61	20	DIN60	53
DIN59	21	DIN58	54
DIN57	22	DIN56	55
DIN55	23	DIN54	56
DIN53	24	DIN52	57
DIN51	25	DIN50	58
DIN49	26	DIN48	59
DIN47	27	DIN46	60
DIN45	28	DIN44	61
DIN43	29	DIN42	62
DIN41	30	DIN40	63
DIN39	31	DIN38	64
DIN37	32	DIN36	65
DIN35	33	DIN34	66
DIN33	34	DIN32	67

CONNECTION TECHNIQUE (APPLICATION EXAMPLES)



* DS68R100DS68 or DS68R200DS68 or DS68R500DS68

* DS68R100DS68 or DS68R200DS68 or DS68R500DS68

PROGRAMMING

Please find on accompanying CD drivers for DOS and Windows (for relating versions visit www.wasco.de/software), I/O support for LabVIEW® and example programs under DOS in Turbo-C®, Turbo-Pascal®, under Windows in Borland C++, Delphi, C++ Builder, Microsoft Visual Basic, VB.NET, C++ and C#.NET

SCOPE OF DELIVERY

Interface Card WITIO-PCI64EXTENDED
German Manual
Driver and program examples on CD

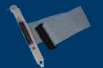
ORDER INFORMATION

WITIO-PCI64EXTENDED EDP No. A-461800
I/O Card

SUITABLE ACCESSORIES

PDB68F23DS68 EDP No. A-498500

Flat ribbon cable (approx. 23 cm) to relocate signals from CN1 and CN2 to a 68-pin Sub-D socket with slot bracket (please order 1 pc per plug)



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 jack



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 jack



KMDB-68 EDP No. A-494800

Terminal module with a 68-pin screw terminal block to connect to a 68-pin SCSI-II jack



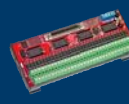
KM-OPTOIN-32 EDP No. A-483600

Optocoupler module with 32 isolated inputs (galvanic isolation for 32 TTL inputs)



KM-OPTOOUT-32 EDP No. A-484600

Optocoupler module with 32 isolated outputs for switching current up to 150 mA (galvanic isolation for 32 TTL outputs)



KM-PREL-16 EDP No. A-485400

Relay module with 16 isolated outputs for switching currents up to 2 A (galvanic isolation for TTL outputs, cascading of the modules is possible)



KM-REL-8 EDP No. A-486200

Relay module with eight isolated outputs for switching currents up to 5 A (galvanic isolation for TTL outputs, cascading of the modules is possible)



KM-VB-5 EDP No. A-488200

Connection module to cascade max. four KM modules or to connect max. four different KM modules to a 68-pin SCSI-II socket



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