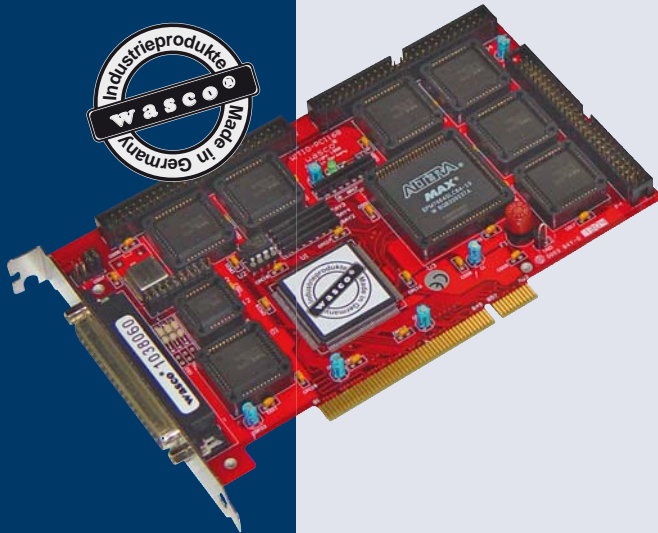


# WITIO-PCI168<sub>EXTENDED</sub>

Interrupt Capable Digital PCI I/O Board with 168 TTL Inputs and Outputs, Timer and Quartz Control Base



168 TTL inputs/outputs

3 \* 16-bit timer/counter

quartz control base

interrupt capable

## SPECIFICATIONS

### TTL Inputs/Outputs

7 \* 71055 or 8255  
7 \* 24 channels, TTL compatible  
Issued in Port A, B and C  
Port A and Port B are programmable in 8-bit groups to be input or output  
Port C is programmable as one 8-bit group or two 4-bit groups to be input or output

### Timer

IC: 8254 or 71054  
3 \* 16-bit downwards counter  
Counting frequency max. 8 MHz  
Interrupt triggered time-dependently  
Cycles from quartz oscillator

### Quartz oscillator

4 MHz

### Connection plugs

1 \* 37-pin Sub-D socket  
3 \* 50-pin box header

### Bus system

32 Bit PCI Bus (internal data bus 8 Bit)

### Power consumption

+ 5V typ. 350mA

### Dimensions

177 mm x 106,7 mm (l x h)  
4layer Multilayer Board

### Other

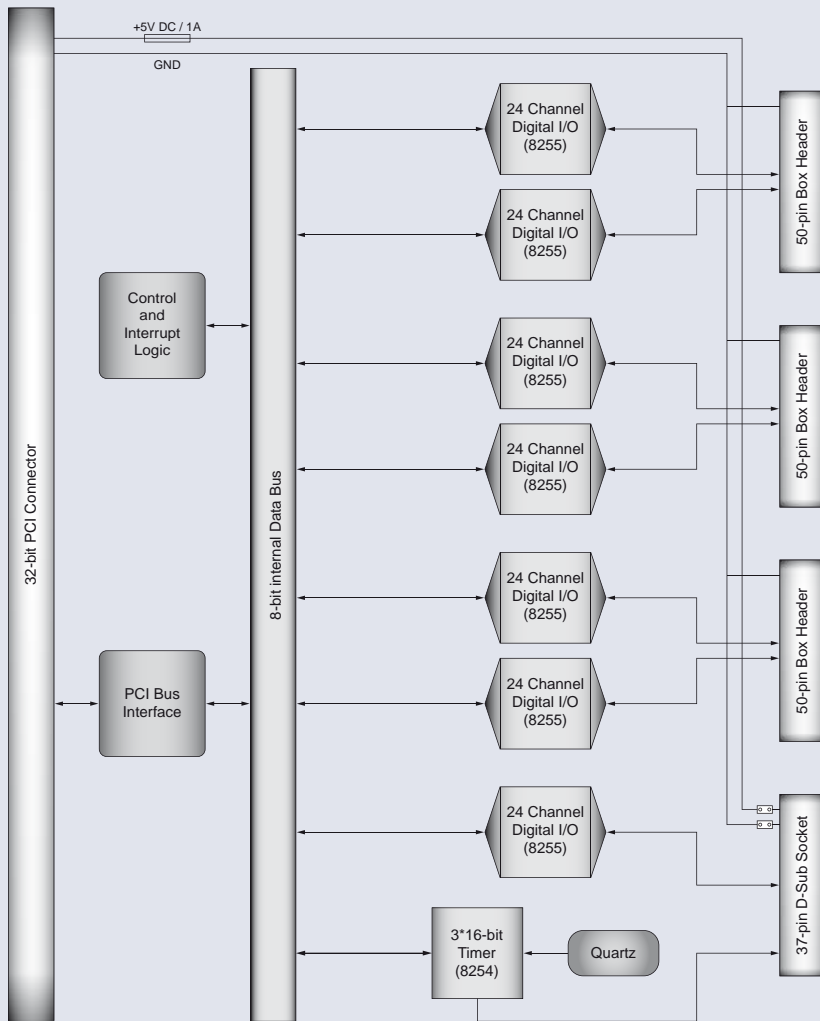
Protection and control LED for power supply of timer and I/O components as well as of logic control.  
All IC sockets with gold plated contacts

## APPLICATIONS

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

WITIO-PCI168<sub>EXTENDED</sub> features 168 digital TTL compatible input/output channels. This board is suitable for all I/O applications which may not need galvanic isolation. The 168 input/output channels are programmable in groups of eight channels each. It is also possible to group every third port into two groups with four channels each to be input or output. Internal data bus works with 8 bit, every access of writing or reading is done byte-wise. A timer IC combined with a quartz oscillator triggers the interrupts time dependently. You can connect periphery over a 37-pin Sub-D jack with slot brackets on the board which are led to the 24 input/output channels and to the timer connections. Furthermore you can connect three 50-pin box headers with each 48 channels. The pin assignment of all jacks and plugs are identical to the assignments of ISA Bus Board WITIO-168<sub>EXTENDED</sub>, thus you can switch to PCI very easily.

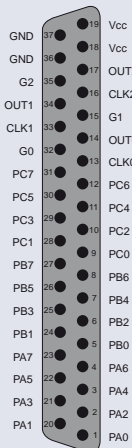
# BLOCK DIAGRAM



# PIN ASSIGNMENT

24 of the digital inputs/outputs, the connections of the timer, the onboard power supply (Vcc +5 V) and the PC's ground are fed to the 37-pin Sub-D socket P1, which is mounted to the board's slot bracket. The remaining inputs and outputs with each 48 channels are fed to the 50-pin box headers P2, P3 und P4.

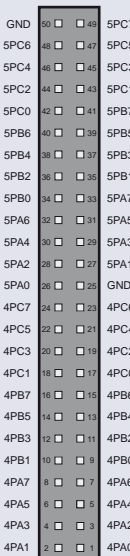
**Sub-D Socket P1**



**Box Header P2**



**Box Header P3**



**Box Header P4**



# PROGRAMMING

Please find on accompanying CD drivers for DOS and Windows95/98/NT/2000/XP/Server2003/Vista® and Windows7®/8/10 as well as I/O-Support for LabVIEW® and example programs in Turbo-C®, Turbo-Pascal®, Borland C++, Delphi, C++ Builder, Microsoft Visual Basic, VB.NET, C++ und C#.NET

# SCOPE OF DELIVERY

Interface Card WITIO-PCI168<sup>EXTENDED</sup>  
German Manual  
Driver and program examples on CD

# ORDER INFORMATION

WITIO-PCI168<sup>EXTENDED</sup> EDP No. A-425500  
I/O Card

# SUITABLE ACCESSORIES

**DS37R500DS37** EDP No. A-202800  
Shielded connection cable (approx. 5 m) to connect KMDB-37 to a 37pin Sub-D jack



**DS37R200DS37** EDP No. A-202400  
Shielded connection cable (approx. 2 m) to connect KMDB-37 to a 37pin Sub-D jack



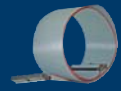
**DS37R100DS37** EDP No. A-202200  
Shielded connection cable (approx. 1 m) to connect KMDB-37 to a 37pin Sub-D jack



**PB50F200PB50** EDP No. A-2016  
Connection cable (ca. 2 m) to connect KMPS-50 to a 50-pin box header



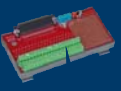
**PB50F100PB50** EDV-Nr. A-2012  
Connection cable (ca. 1 m) to connect KMPS-50 to a 50-pin box header



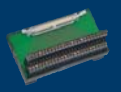
**DS37R100** EDP No. A-199802  
Shielded connection cable (approx. 1 m) with one 37-pin Sub-D socket connector, the other side open ends of lines for customized assembly



**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



**KMPS-50** EDP No. A-2036  
Terminal module with a 50-pin screw terminal block to connect to a 50-pin box header



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