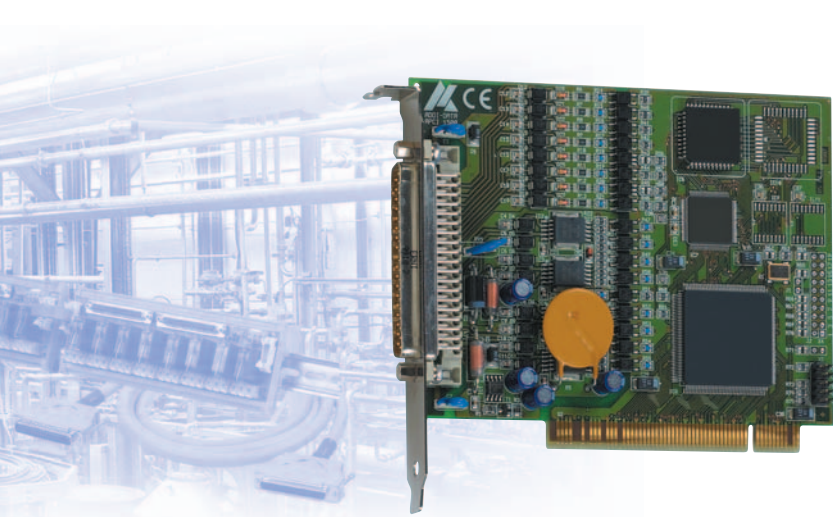


# Digital input/output board, 32 isolated I/O channels, 24 V



Compatible version  
for the **CompactPCI<sup>®</sup> Bus**  
See Page 112



LabVIEW™



DASyLab™



LabWindows/CVI™

## Features

- PCI Interface to the 32-bit data bus
- 3 timers programmable by software
- Connector compatible to digital I/O board PA 1500 for the ISA bus as well as connector and software compatible to CPCI-1500 for the CompactPCI bus
- Monitoring program for testing and setting the board functions

## Inputs

- 16 isolated digital inputs, 24 V, incl. 14 interruptible
- Protection against pole reversal
- All inputs are filtered

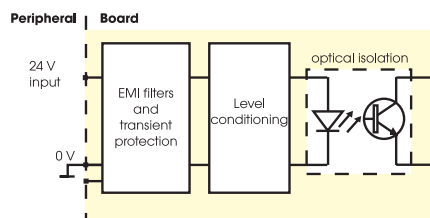
## Outputs

- 16 isolated digital outputs, 10 to 36 V
- Output current per channel 500 mA
- Timer-programmable watchdog for resetting the outputs to "0"
- Diagnostic report through status register in case of short circuit, overtemperature, voltage drop or watchdog
- Interrupt triggered through watchdog, timer, error
- At power-on, the outputs are reset to "0"
- Short-circuit current for 16 outputs ~ 3 A typ.
- Short-circuit current per output ~ 1.5 A typ.
- Self-resetting fuse (electronic fuse)
- Overtemperature and overvoltage protection
- 24 V power outputs with protection diodes and filters
- Output capacitors against electromagnetic emissions
- External 24 V voltage supply screened through protection circuitry
- Shut-down logic when the external supply voltage drops below 5 V

## Safety features

- Optical isolation 1000 V
- Creeping distance IEC 61010-1 (VDE411-1)
- Protection against fast transients (burst) overvoltage, electrostatic discharge and high-frequency EMI

## Protection circuitry for the input channels



## APCI-1500

**16 digital inputs, 24 V,  
including 14 interruptible inputs**

**16 digital outputs, 24 V, 500 mA/channel**

**Optical isolation 1000 V**

**Input and output filters**

**Watchdog, timer**

**After power-on the outputs are reset to "0"**

- Separate grounds for inputs and outputs channels

## EMC tested acc. to 89/336/EEC

- IEC 61326: electrical equipment for measurement, control and laboratory use

## Applications

- Industrial I/O control
- PLC connection
- Signal switching
- Interface to electromechanical relays
- Automatic test equipment
- ON/OFF monitoring of motors, lights ...
- Watchdog timer
- Machine interfacing
- ...

## Software drivers

### Standard drivers for:

Linux kernel version 2.4.2, Windows XP/2000/NT/98.  
Real-time driver for Windows XP/2000/NT/98.  
Monitoring program ADDIMON

### Drivers for the following application software:

LabVIEW 5.01 • LabWindows/CVI • Diadem 6/7

### Samples for the following compilers:

Microsoft VC++ 5.0; Microsoft C 6.0  
Borland C++ 5.01; Borland C 3.1  
Visual Basic 1.0/4.0/5.0  
Delphi 4.0  
Turbo Pascal 7.0

### On request:

DasyLab 6/7 • Embedded NT • RTX-driver

### ADDIPACK functions on request :

Digital Input with or without IRQ • Digital Output

## Protection circuitry for the output channels

