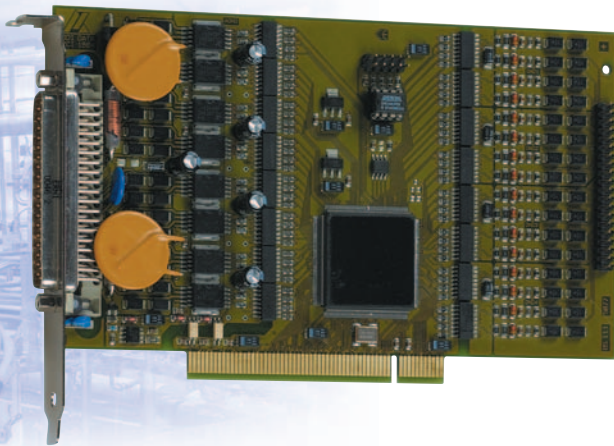


Digital input/output board, 64 isolated I/O, 24 V



APCI-1564

**32 digital inputs, 24 V or 5 V,
incl. 16 interruptible, filtered**

**32 digital outputs, 24 V or 5 V,
500 mA/channel, filtered**

Optical isolation 1000 V

Watchdog, timer, counter

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

3 x 32-bit counter up to 500 kHz



LabVIEW™



LabWindows/CVI™

Features

- 32-bit, 33 MHz, PCI Interface

Inputs

- 32 isolated digital inputs, 24 V or version 5 V (APCI-1564-5), incl. 16 interruptible and 3 counter inputs
- Inputs organised in 4 groups of 8 channels each group has its own ground line
- Protection against pole reversal
- All inputs are filtered

Outputs

- 32 isolated digital outputs, 10 to 36 V or 5 V (APCI-1564-5)
- Output current/channel 500 mA
- Watchdog for resetting the outputs to "0"
- After power-on the outputs are reset to "0"
- Total current for 16 outputs ~ 3 A
- Total current for 32 outputs ~ 6 A
- Electronic fuse
- Short-circuit current per output ~ 1.5 A
- Overtemperature and overvoltage protection
- 24 V power outputs with protection diodes and filters
- Special output capacitors against electromagnetic emissions
- External 24 V voltage supply screened through protection circuitry
- Shutdown 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
- Interrupt triggered through watchdog, timer
- 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

A CD-ROM with the following software and programming examples is supplied with the board.

Standard drivers for:

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

The board is supplied with the universal software ADDIPACK (see Page 5).

Drivers for the following application software:

LabVIEW 5.01
LabWindows/CVI

Samples for the following compilers:

Microsoft VC++ 5.0 • Borland C++ 5.01
Visual Basic 5.0 and Delphi 4.0 (except timer function)

ADDIPACK functions supported:

Digital input • Digital output
Interrupt • Watchdog • Timer • counter

On request: RTX-driver

Current driver list on the web: www.addi-data.com

Connection principle the outputs at 24 V (APCI-1564) and 5 V (APCI-1564-5)

