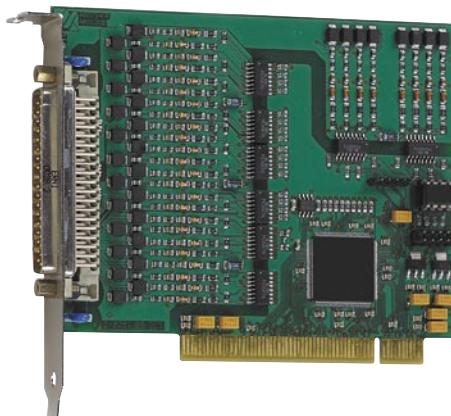


Digital input board, optically isolated, 32 digital inputs, 24 V/5 V



RoHS
compliant



LabWindows/CVI™

Features

- PCI Interface to the 32-bit data bus
- 32 isolated digital inputs, 24 V (APCI-1032) or 5 V version (APCI-1032-5) incl. 16 interruptible inputs

Safety features

- Optical isolation 1000 V
- Creeping distance IEC 61010-1 (VDE411-1)
- Protection against pole reversal
- All inputs are filtered
- Protection against fast transients (burst) overvoltage, electrostatic discharge and high-frequency EMI
- Additional noise suppression on the interrupt lines

EMC tested acc. to 89/336/EEC

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

Applications

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

APCI-1032 / APCI-1032-5

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

Optical isolation 1000 V

Input filters

Protection against pole reversal

Software drivers

ACD-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**.

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

Delphi 4.0

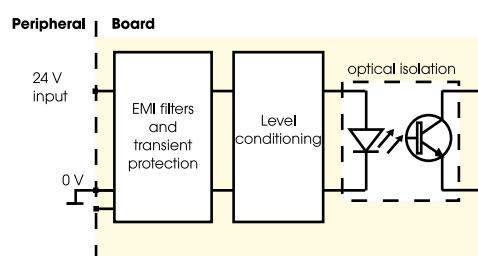
ADDIPACK functions supported:

Digital input

Interrupt

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

Protection circuitry for the input channels:



Digital input board, optically isolated, 32 digital inputs, 24 V / 5 V



APCI-1032 / APCI-1032-5

Specifications

Digital inputs

Number of inputs:	32
Optical isolation:	through opto-couplers, 1000 V from the PC to the peripheral
Interruptible inputs:	16 (input 0 to 15)
Interrupt compare logic:	AND and OR mode; OR priority
Nominal voltage:	24 V or 5 V (APCI-1032-5)
Input current at U nominal:	6 mA typ.
Logical input level:	U nominal: 24 V U nominal: 5 V
UH max.:	30 V/Current 7.3 mA typ.
UH min.:	19 V/Current 3.2 mA typ.
UL max.:	14 V/Current 1.3 mA typ.
UL min. at nominal voltage:	0 V/Current 0 mA typ.
Signal delay:	70 µs
maximum input frequency:	5 kHz, at nominal voltage

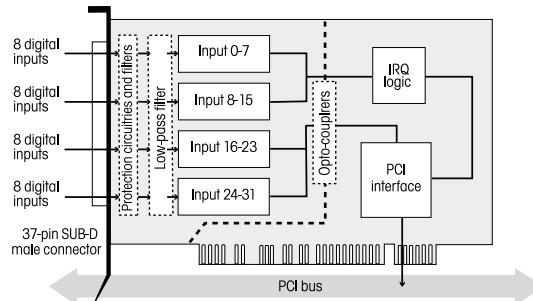
Noise immunity

Test level:	- ESD: 4 kV - Fields: 10 V/m - Burst: 4 kV - Conducted radio interferences: 10 V
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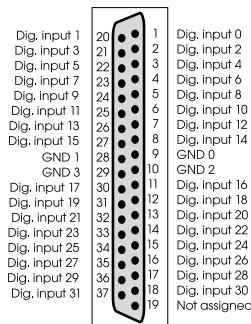
Physical and environmental conditions

Dimensions:	131 x 99 mm (PCI short)
System bus:	PCI 32-bit 5 V acc. to specification 2.1 (PCISIG)
Space required:	1 PCI slot
Operating voltage:	+5 V, ± 5 % from PC
Max. current consumption:	(+5 V from PC) 180 mA ± 15 mA typ.
Front connector:	37-pin SUB-D male connector
Temperature range:	0 to 60°C (with forced cooling)

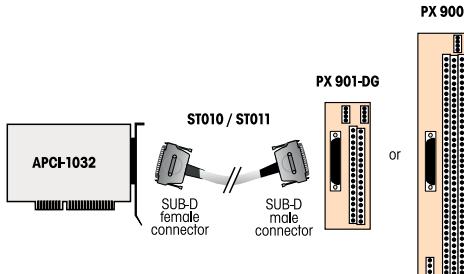
Simplified block diagram



Pin assignment – 37-pin SUB-D male connector



ADDI-DATA connection APCI-1032



(No illustration: the APCI-1032-5 can only be connected to the PX 901-ZG terminal panel)

ORDERING INFORMATION

APCI-1032

- APCI-1032:** Digital input board, optically isolated, 32 digital inputs, 24 V. Incl. technical description and software driver
APCI-1032-5: Digital input board, optically isolated, 32 digital inputs, 5 V. Incl. technical description and software driver

Connection for the APCI-1032

- PX 901-D:** Screw terminal panel,
LED status display
PX 901-DG: Screw terminal panel,
LED status display, for DIN rail
PX 9000: 3-row screw terminal panel for DIN rail, LED status display
ST010: Standard round cable, shielded, twisted pairs, 2 m
ST011: Standard round cable, shielded, twisted pairs, 5 m

Connection for the APCI-1032-5

- PX 901-ZG:** Screw terminal panel, for DIN rail
ST010: Standard round cable, shielded, twisted pairs, 2 m
ST011: Standard round cable, shielded, twisted pairs, 5 m