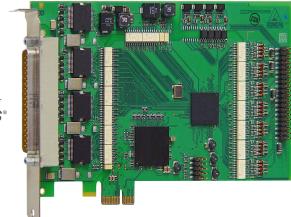
Digital input board, optically isolated, 32 digital inputs, 24 V, for PCI Express





PCI EXPRESS





Also for **PCI** See APCI-1032, page 166









LabWindows/CVI™ DASYLab10



* Preliminary product information

Features

- Connector and software compatible to the digital input board APCI-1032 for the PCI bus
- Monitoring program for testing and setting the board functions

Inputs

- 32 optically isolated digital inputs, 24 V, including 16 interruptible inputs
- Reverse voltage protection

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

Applications

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

APCIe-1032

PCI Express interface

32 digital inputs, 24 V,

including 16 interruptible inputs

Optical isolation 1000 V

Input filters

Reverse voltage protection

Connection through industry-standard

D-Sub connector

Software drivers

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

Standard drivers for:

- Linux
- 32-bit drivers for Windows 8 / 7 / Vista / XP / 2000
- Signed 64-bit drivers for Windows 8 / 7 / XP
- · Real-time use with Linux and Windows on request

Drivers and samples for the following compilers and software packages:

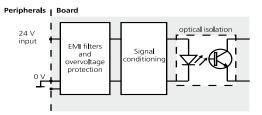
- .NET
- Microsoft VC++ Borland C++
- Visual Basic Delphi
- LabVIEW LabWindows/CVI DIAdem •

On request:

Further operating systems, compilers and samples.

Driver download: www.addi-data.com/downloads

Protective circuit for the input channels





• All inputs are filtered Safety features

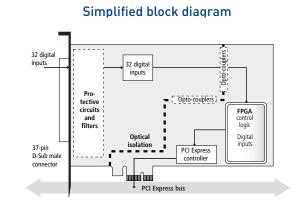
Specifications*

Digital inputs	
Number of inputs:	32 (common ground acc. to IEC 1131-2)
Including interruptible inputs:	16 (input 0 to 15)
Optical isolation:	Through opto-couplers, 1000 V from PC to peripheral
Compare logic:	AND and OR mode
Nominal voltage:	24 V
Input current at 24 V:	6 mA typ.
Maximum input frequency:	5 kHz (at nominal voltage)
Signal delay:	70 μs (at nominal voltage)
Logic input levels:	U nominal: 24 V
	UH (max.): 30 V
	UH (min.): 19 V
	UL (max.): 14 V
	UL (min.): 0 V
Filters/protective circuits	Input filters, transil diodes, RC filters, Z diodes,
	opto-couplers

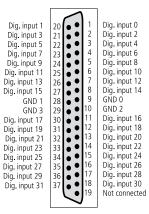
EMC – Electromagnetic compatibility

The product complies with the European EMC directive. The tests were carried out by a certified EMC laboratory in accordance with the norm from the EN 61326 series (IEC 61326). The limit values as set out by the European EMC directive for an industrial environment are complied with. The respective EMC test report is available on request.

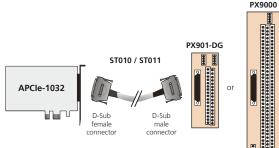
Physical and environmental conditions	
Dimensions:	149 x 99 mm
System bus:	Acc. to PCI Express base specification,
	Revision 1.0a (PCI Express 1.0a)
Space required:	1-/4-/8-/16-lane PCI Express slot
Operating voltage:	+ 3.3 V from PC
Current consumption:	Inactive inputs 320 mA ± 10 %, typical
	8 active inputs 400 mA \pm 10 %, typical
Front connector:	37-pin D-Sub male connector
Temperature range:	0 to 60 °C (with forced cooling)



Pin assignment – 37-pin D-Sub male connector



ADDI-DATA connection



PX9000 00

PCI >>

Ordering information

APCIe-1032 Digital Input board, optically isolated, 32 digital inputs, 24 V, for PCI Express. Incl. technical description and software drivers. Accessories ninal nanel IED status display DYON1_D

PA901-D:	Screw terminal panel, LED status display
PX901-DG:	Screw terminal panel, LED status display, for DIN rail
PX9000:	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

* Preliminary product information