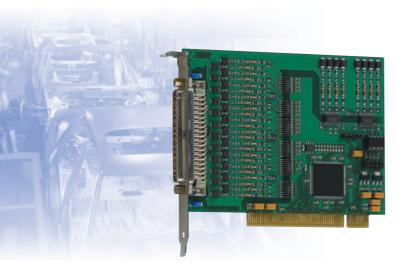
## Digital input board, 32 isolated channels, 24 V





### **APCI-1032**

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

Optical isolation 1000 V

**Input filters** 

Protection against pole reversal









### **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
- · ...

### 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:

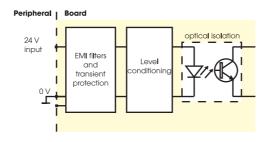
Microsoft VC++ 5.0 Borland C++ 5.01 Visual Basic 5.0 Delphi 4.0

### **ADDIPACK** functions supported:

Digital input Interrupt

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

### Protection circuitry for the input channels:



Sales:

# Digital input board, 32 isolated channels, 24 V

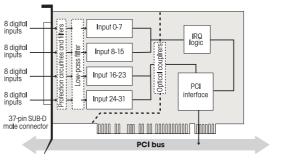


### **APCI-1032**

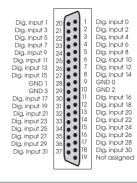
### **Specifications**

Digital inputs		
Number of inputs:	32	
Optical isolation:	through optical 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 9 mA typ.	6 V/8.4 mA typ
UH min.:	19 V/Current 2 mA typ.	3.3 V/3 mA typ.
UL max.:	17 V/Current 0.7 mA typ.	2.7 V/1.9 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 interferer	nces: 10 V
Physical and environme	ental conditions	
Dimensions:	131 x 99 mm (PCl 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) 190 mA ± 10 % typ.	
Front connector:	37-pin SUB-D male connector	
Temperature range:	0 to 60°C (with forced cooling)	

## Simplified block diagram



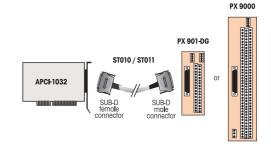
### Pin assignment – 37-pin SUB-D male connector







### **ADDI-DATA** connection



### **ADDINUM APCI-1032**

**APCI-1032:** Digital input board, 32 isolated channels, 24 V version **APCI-1032-5:** Digital input board, 32 isolated channels, 5 V version Incl. technical description and software drivers

### Connection

**PX 901-D:** Screw terminal board, LED status display

**PX 901-DG:** Screw terminal board, LED status display for DIN-rail

**PX 9000:** 3-row screw terminal board for

DIN rail, LED status display

**STO10:** Standard cable, shielded, twisted pairs, 2 m **STO11:** Standard cable, shielded, twisted pairs, 5 m

### **ORDERING INFORMATION**

Sales: +49(0)7223/9493-120 Fax: +49(0)7223/9493-92