Digital input board, optically isolated, 16 digital inputs, 24 V



APCI-1016

16 digital inputs, 24 V

Optical isolation 1000 V

Input filters

Reverse voltage protection











LabVIEW™





Features

• 16 optically isolated digital inputs, 24 V

Safety features

- Optical isolation 1000 V
- Creeping distance IEC 61010-1
- Reverse voltage protection
- All inputs are filtered
- 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

• ...

Software drivers

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

Standard drivers for:

Linux Kernel version 2.4.2,

Windows Vista (32-bit)/XP/2000.

The board is supplied with the universal software

ADDIPACK (see page 11).

Drivers for the following software packages:

- LabVIEW 5.01
- LabWindows/CVI
- DIAdem

Samples for the following compilers:

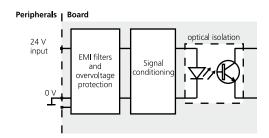
- Microsoft VC++ 5.0
- Borland C++ 5.01
- Visual Basic 5.0
- Delphi 4.0

Supported ADDIPACK functions:

Digital input

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

Protective circuit for the input channels





Phone: +49 7229 1847-0 iii Fax: +49 7229 1847-222 v

info@addi-data.com www.addi-data.com

Digital input board, optically isolated, 16 digital inputs, 24 V

Through opto-couplers, 1000 V

from PC to peripheral

30 V/current 9 mA typ.

19 V/current 2 mA typ.

0 V/current 0 mA typ.

14 V/current 0.7 mA typ.

5 kHz at nominal voltage

24 V

70 µs

6 mA typ.

U nominal: 24 V

Specifications

Digital inputs Number of inputs: Optical isolation:

Nominal voltage:

Logic input levels:

UH max.:

UH min.:

UL max.:

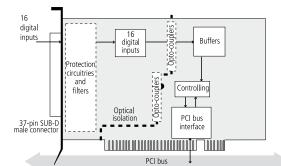
Signal delay:

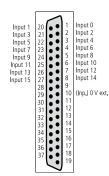
Input current at U nominal:

UL min. at nominal voltage:

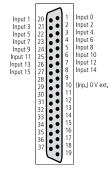
Maximal input frequency:

Simplified block diagram





Pin assignment - 37-pin SUB-D male connector



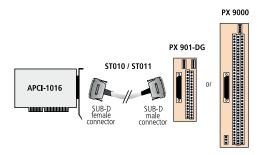
EMC - Electromagnetic compatibility

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

131 x 99 mm (PCI short)
PCI 32-bit 5 V acc. to specification 2.1 (PCISIG)
1 PCI slot
$+5 \text{ V, } \pm 5 \text{ \% from the PC}$
(+5 V from the PC) 190 mA \pm 10 mA typ.
37-pin SUB-D male connector
0 to 60 °C (with forced cooling)

ADDI-DATA connection



APCI-1016

Screw terminal panels PX 9000 and PX 901-DG



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Digital input board, optically isolated, 16 digital inputs, 24 V. Incl. technical description and software drivers

Accessories

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

ADDI-DATA

Ordering information

Phone: +49 7229 1847-0 info@addi-data.com +49 7229 1847-222 www.addi-data.com