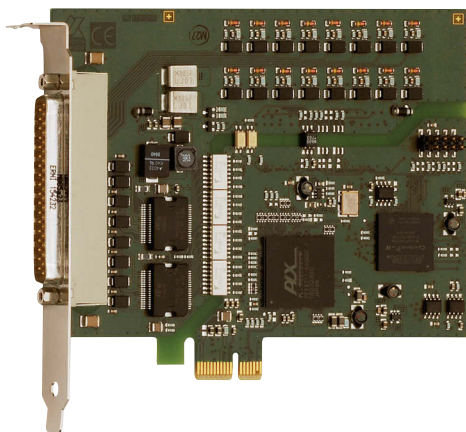


Digital I/O board, optically isolated, 16 digital inputs, 24 V, for PCI Express

PCI
EXPRESS®



Also for **PCI**
See APCI-1016

Windows
64/32-bit drivers



on request

APCle-1016

PCI-Express interface

16 digital inputs, 24 V

Optical isolation 1000 V

Input filters

Reverse voltage protection

Connection through industry-standard
D-Sub connector

Features

- Connector and software compatible to the digital I/O board APCI-1016 for the PCI bus.

Inputs

- 16 optically isolated digital inputs, 24 V
- Reverse voltage protection
- All inputs are filtered

Safety features

- 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
- PLC coupling
- Signal switching
- Interface to electromechanical relays
- ON/OFF monitoring of motors, lights...
- Interface to machines

Software drivers

Standard drivers for:

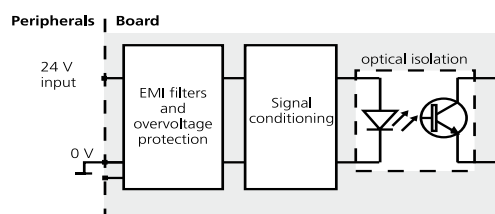
- Linux
- 32-bit drivers for Windows 11 / 10 / 8 / 7 / Vista / XP / 2000
- Signed 64-bit drivers for Windows 11 / 10 / 8 / 7 / XP
- Real-time use with Linux and Windows on request

On request:

Further operating systems, compilers and samples.

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

Protective circuit for the input channels



Specifications*

Digital inputs

Number of inputs: (common ground acc. to IEC 1131-2)	16
Optical isolation:	Through opto-couplers, 1000 V from PC to peripheral
Nominal voltage:	24 V
Input current at 24 V:	2 mA typ.
Maximal input frequency:	5 kHz at 24 V
Logic input levels:	U nominal: 24 V
UH max.:	30 V/current 9 mA typ.
UH min.:	19 V/current 2 mA typ.
UL max.:	14 V/current 0.7 mA typ.
UL min.:	0 V/current 0 mA typ.
Filters/protective circuits	Input filters, transil diodes, RC filters, Z diodes, opto-couplers

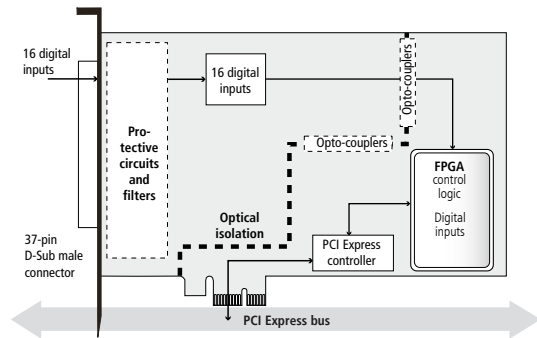
EMC – Electromagnetic compatibility

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.

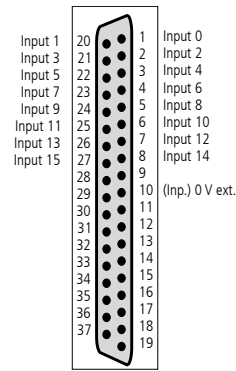
Physical and environmental conditions

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 ± 10 %, typical
Front connector:	37-pin D-Sub male connector
Temperature range:	0 to 60 °C (with forced cooling)

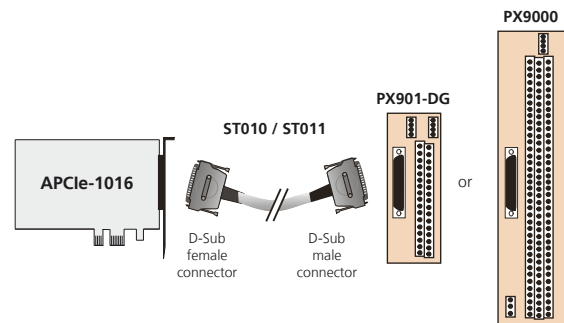
Simplified block diagram



Pin assignment – 37-pin D-Sub male connector



ADDI-DATA connection



Ordering information

APCle-1016

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

Accessories

PX901-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
ST010-S:	Same as ST010, for high currents (separate 24 V supply)