Product Datasheet - Technical Specifications

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◼ PCI-PIO

Digital I/O Card (PCI)

32 Channels. Digital.
Signal Output & Monitoring.

Record and output digital signals. The PCI-PIO features two 16-bit bidirectional digital ports. The port lines are led out to a 37-pin D-Sub female connector. The short latency of the PCI interface makes the card especially attractive for controlling tasks.

Connect Incremental Encoder.
Count Up and Down.

Up to 3 counters or incremental encoders can be connected at any digital inputs of the PCI-PIO. The relevant digital lines are programmed to counter mode via software. To set an incremental encoder to the zero position, the use of an external counter reset is supported.
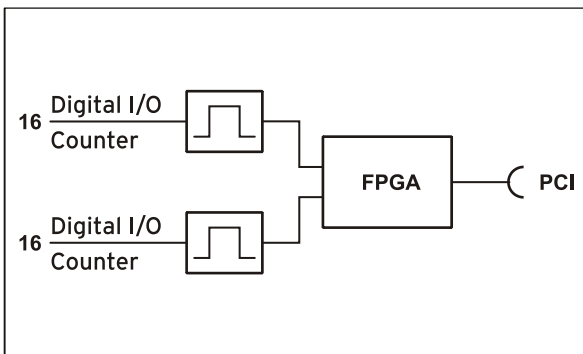
PCI. Well Fitted in the PC.

The PCI-PIO is installed in a free PCI slot and is supplied by the PC - all this without annoying cables. The PC housing provides optimum protection against interferences. Due to Plug&Play, the card is recognized automatically by the PC making installation a lot easier.

Windows®. That's it.

The PCI-PIO can be used on Windows® XP/7/8/10. The entire software for installation and programming of the digital I/O card is included for free.

NextView®. Try for Free.

The DAQ card is supported by NextView®, the software for data acquisition and analysis. A fully functional 14-day trial is included with delivery to directly test the functionality of the PCI-PIO.

Functional diagram

Technical Data

(typical at 20°C, after 5min.)

- ## Digital Inputs/Outputs

Channels:	2x 16 lines (bidirectional, set in groups of 8), 3x counters/incremental encoders (32 bit, opt. counter reset) connectable at any digital inputs
Level:	CMOS/TTL compatible (low: 0V..0.7V; high: 3V..5V)
Input resistance:	1MΩ
Surge protection:	20V DC, max. ±20mA in total of all inputs!
Output resistance:	1kΩ
Output current:	1mA
Signal connection:	all channels are accessible at a 37-pin D-Sub female connector at the PC-card bracket

- ## General Data

Bus connection // PCI specification:	PCI bus (universal slot: 3.3V and 5V) // PCI Bus Spec 3.0
CE standards:	EN61000-6-1, EN61000-6-3, EN61010-1
ElektroG // ear registration:	RoHS and WEEE compliant // WEEE Reg.-No. DE75472248
Max. permissible potentials:	**60V DC acc. to VDE**, max. 1kV ESD on the lines
Temperature ranges:	operating temp. –25°C..+50□C, storage temp. –25°C..+70□C
Relative humidity:	0–90% (not condensing)
Size:	without PC-card bracket: 181 x 107 x 16 mm₃
Delivery:	product, PC-bracket
Available accessories:	37-pin D-Sub plug ZUST37, connecting cable ZUKA37SB, ZUKA37SS
Warranty:	2 years from date of purchase at bmcm, claims for damages resulting from improper use excluded

- ## Software

Software free of charge download:	LIBAD4 SDK for C/C++ programming on Windows® XP/7/8/10, trial version of the measuring software NextView®4 to test and operate the hardware
NextView® (optional):	professional software (versions: Professional, Lite) for the acquisition and analysis of measurement data on Windows® 8/10