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PXI / PCI Guide



GOPEL electronic

Intelligent Automotive Test Solutions™

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GÖPEL electronic and PXI

Since its foundation in 1991, GÖPEL electronic has been focused on the development of innovative, customized test and automation solutions. Our customers benefit from our extensive experience in developing hardware and software for a wide range of applications.

GÖPEL electronic was one of the first companies in the world to recognize the PXI specification's potential for innovative open system designs. As early as 1998 our first PXI product PXI 3164 was launched. Since then, our wide range of individual modules and complete solutions has been continuously expanded.

Our worldwide distribution and support network ensures local installation and on-site availability. Our commitment to product quality is demonstrated by repeated certifications to the ISO 9001 standard since 1996.



The PXI technology

PXI (PCI eXtensions for Instrumentation) is an open industry standard for modular measurement and automation systems developed by National Instruments.

More information can be found at http://www.ni.com.

PXI technology is an innovative adaptation of the CompactPCI form factor and is a combination of PCI specifications, Eurocard packaging and high efficiency connectors (IEC). Thus, PXI enjoys the benefits of high performance and low costs associated with the latest PC systems. Bus data rates of up to 132 MB/s are achievable through the high speed of the PCI bus.

In contrast to PCI systems, a PXI rack system has space to accommodate up to 21 PXI modules in addition to the system controller. The specification covers system features for high performance synchronisation and interrupts as well as simple integration of modules from certain vendors, such as National Instruments. The specification also covers areas such as EMC performance and module cooling.

The PXI specification requires Windows 9x/2000/NT or XP as system software to ensure the use of a wide range of application software. Moreover, the implementation of VISA results in software compatibility for communication and supervision of other PXI systems as well as CompactPCI, PCI, VXI and GPIB applications.

- **Trigger Bus** to synchronize runs on single modules
- **Local Bus** between neighbouring slots which results in a daisy-chained bus and therefore enables data transfer between two modules
- **10 MHz system** clock, available for all modules
- **Star Trigger** with stellar trigger lines from slot 2 to other slots

Advantages of PXI technology

Eurocard Packaging
integration of software and hardware
compatible with CompactPCI
highly efficient
integrated timing and trigger features
modular architecture

Typical PXI applications

test systems
data recording
industrial automation
portable and embedded solutions
production test
circuits

Certificate Registration
No. 09 100 67025



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1. Digital I/O modules

The I/O boards of the 301x series are characterized by an extended voltage range at the inputs and outputs. This is particularly valuable in industrial control and automotive applications.
Additional functions are implemented to increase efficiency by allowing the digital signals to be preprocessed using an embedded microcontroller. The digital I/O modules can be used in functional test systems based on CompactPCI and PXI. Simple applications which require generation and reading of digital I/O signals are easy to implement using these modules.

Type	Input	Output	Bidirectional	Voltage	µController	Galvanic isolation	Special functions
3010	42	32	—	5…30 V	✓	✓	e.g. Option PWM
3013	—	32	—	5…30 V	—	—	—
3014	64	—	—	5…60 V	—	—	—
3015	16	—	24	5…25 V	—	—	—

PXI 3010 Digital I/O



Recommended application areas
- general test and measurement systems
- test systems for vehicle electronics
- industrial control

Technical data
- 42 digital inputs
- 32 digital outputs
- output supply voltage 5...30 V
- 250 mA max current per channel
- thermal switch-off on overload
- galvanic isolation between bus interface and outputs
- switching time 20 ms

PXI 3013 Digital Output



Recommended application areas
- general test and measurement systems
- test systems for vehicle electronics
- industrial control

Technical data
- (low cost) digital output, 32 channels
- output supply voltage 5…30 V
- output galvanically isolated (opto-coupler)
- output current per channel ≤ 400 mA
- total current ≤ 4 A

PXI 3014 Digital Input



Recommended application areas
- general test and measurement systems
- test systems for vehicle electronics
- industrial control

Technical data
- (low cost) digital input, 64 channels
- output supply voltage 5…60 V
- input galvanically isolated
- detection time of the input channels ≤ 15 µs

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PXI 3015 Digital I/O



Recommended application areas

- general test and measurement systems
- test systems for vehicle electronics
- industrial control

Technical data

- 24 digital bidirectional channels and 16 input channels
- output supply voltage 6...25 V
- application side is isolated (potential free or floating)
- output current per channel ≤350 mA
- total current ≤ 6 A
- Update time of all channels ≤ 500 µs
- 24 outputs consisting of:
  - 1 high side switch to U_{ref}
  - 1 low side switch to GND
  - 1 low side switch to GND via 1 k serial resistor
- 24 + 16 inputs consisting of:
  - 1 contact monitor to U_{ref}
  - 1 contact monitor to GND

2. Communication modules

A wide range of PXI modules for communication with bus systems commonly found in the automotive sector. These modules support the CAN bus, LIN bus and K-line. Each communication port on these modules has a dedicated embedded microcontroller to increase real-time communication power. The communication modules are ideal for integration into vehicle control unit functional test applications. They can also be used in complex functional test systems based on the PCI and PXI buses.

Type	Interface	Ports	µController	Diagnostic	Specification	Transceiver
3052	CAN	2 - 4	✓	optional	2.0 A / 2.0 B	optional**
3072	LIN/K-line	3*	✓	✓	2.0 / ISO 9141	optional**
3080	CAN/ serial	2/2*	✓	optional	2.0 / 2.0 A / 2.0 B	optional**
3090	FlexRay	2 x 2	✓	—	PS V 1.0 / 1.1	TJA 1080/RS 485
* Change to LIN or K-line possible				** pluggable and freely configurable		

PXI 3052 CAN Interface



Recommended application areas

- CAN applications in the automotive industry
- CAN applications in process control
- general test and measurement systems

Technical data

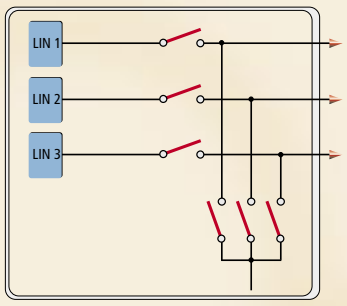
- up to four independent full-CAN controllers
- CAN protocol conforms to CAN specification 2.0 A and 2.0 B
- real time simulation of control units via "intelligent" CAN interface with 32 bit µcontroller
- configurable transceiver for each CAN interface (high speed, low speed or single wire)
- output of arbitrary CAN messages of variable numbers
- supply of network management functions
- automated read-in of the CAN data base (dbc-file)
- on-board diagnostic functions for:
  - KWP 2000 on TP 1.6
  - KWP 2000 on TP 2.0
  - KWP 2000 on CAN-ISO-TP
  - UDS on CAN-ISO-TP
  - GMLAN
- all interfaces galvanically isolated
- acknowledge can be switched off
- on-board functions for DDP und BAP

PXI 3072 LIN Bus Controller



Recommended application areas

- LIN and K-line applications in the automotive industry
- test systems for vehicle production



Technical data

- up to three independent LIN/K-line interfaces
- LIN protocol according to specification 2.0
- K-line according to ISO 9141
- variable LIN transceiver wiring
- interface interconnections controllable by software
- LIN interfaces can work as Master or Slave
- output of arbitrary LIN messages (allows rest bus simulation)
- automated read-in of the LIN data base (ldf-file)
- on-board diagnostic functions for K-line: KWP 2000, KWP 1281

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PXI 3080 Multi-Bus Controller



Recommended application areas

- CAN applications in the automotive industry
- LIN applications in the automotive industry
- test systems for vehicle production
- test solution for mixed bus systems

Technical data

- 2 x CAN with same features as PXI 3052
- 2 x LIN with same features as PXI 3072
- 2 x K-Line
- protocols for K-Line: KWP 1281
  KWP 2000
  ISO-9141
- protocols for CAN: KWP 2000 on TP 1.6
  KWP 2000 on TP 2.0
  KWP 2000 on CAN-ISO-TP
  UDS on CAN-ISO-TP
  GMLAN
- 1 x J1850 with freely configurable transceiver
- 4 x digital input
- 4 x digital output
- 2 x analog input
- all interfaces are galvanically isolated

PXI 3090 FlexRay Controller



Recommended application areas

- FlexRay applications in the automotive industry
- test systems in vehicle electronics with FlexRay

Technical data

- 2 independent FlexRay nodes with 2 channels each
- intelligent FlexRay interfaces, each with 32 Bit µController
- freescale MFR 4200 applied FlexRay communication controller
- configurable transceiver TJA 1050 RS 485

3. Relay and switching modules

These PXI modules cover a broad range from 5A power relays to matrix switching systems. The range includes the PXI 3116 relay module with 16 relays each capable of switching 5A, the PXI 3132 containing 32 relays with a switching current of 1A, the PXI 3156 with 14 two-to-one multiplexers, the PXI 3164 which is a 4 x 16 matrix and the PXI 3181 with 40 two-to-one multiplexers. The relay modules can be used in functional test systems based on CompactPCI and PXI. They can also easily be integrated in individual applications where signals have to be switched or connected.

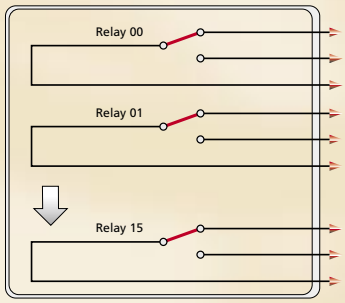
Type	Structure	Relay type	Switching voltage	Switching current	Switching time
3116	16 change-over switches	mechanical	100VDC/230VAC	5ADC/2AAC	20ms
3117	16 change-over switches	semiconductor	100VDC	2ADC	5ms
3132	32 single relays	mechanical	100VDC	1ADC	10ms
3133	32 single relays	semiconductor	100VDC	0.3ADC	2ms
3156	14 multiplexer	mechanical	100VDC	2ADC	10ms
3157	8 multiplexer	mechanical	100VDC	2ADC	10ms
3164	4 x 16 to 1 multiplexer	mechanical	100VDC	1ADC	10ms
3165	4 x 16 to 1 multiplexer	semiconductor	100VDC	0.3ADC	2ms
3181	40 x 2 to 1 multiplexer	mechanical	100VDC	1ADC	10ms

PXI 3116 16 Power Relays



Recommended application areas

- general test and measurement systems
- power switchboard section
- high power matrices



Technical data

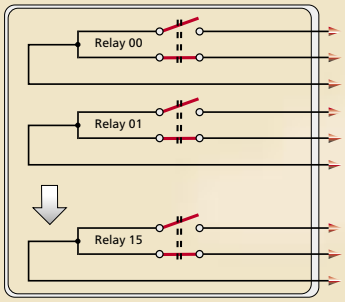
- 16 changeover relays (SPDT)
- each relay has 3 pins brought out to the front panel connector
- max. switching current (DC) per relay 5 A at 30 VDC
- max. switching current (AC) per relay 2 A at 230 VAC
- max. switching voltage 100 VDC and 250 VAC
- max. switching power (DC) 300 W
- max. switching power (AC) 1000 VA
- switching time 20 ms

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PXI 3117 16 Power Relays
semiconductor



Recommended application areas
- general measurement technology
- test and measurement systems
- telecommunication

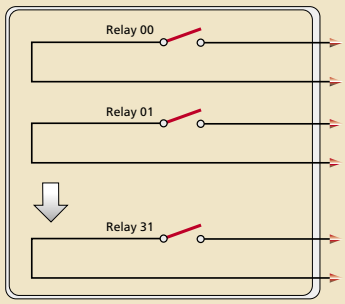


Technical data
- 16 changeover switches (each implemented from a pair of solid-state relays)
- max. switching voltage 100 VDC
- max. switching current 2 A
- max. power per relays 1.6 W
- max. 10 µA residual current per relay at OUTPUT
- switching time 5 ms

PXI 3132 32 Power Relays
closing contact



Recommended application areas
- general test and measurement systems
- measuring multiplexer
- matrix

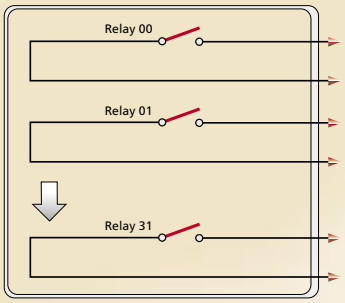


Technical data
- 32 relays (closing contact)
- each relay has 2 pins brought out to the front panel connector
- max. switching current (DC) per channel 1 A at 30 VDC
- switching voltage 10 mV...100 VDC
- max. switching power 30 W
- min. switching current 10 µA
- switching time 10 ms

PXI 3133 32 Relays *semiconductor*



Recommended application areas
- general measurement technology
- test and measurement systems
- telecommunication

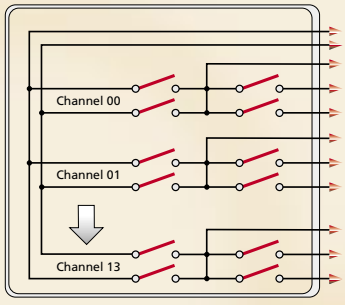


Technical data
- 32 relays (closing contact)
- max. switching current per channel 0.3 A
- max. switching voltage100 VDC
- 1 µA residual current per relays at OUTPUT
- min. switching current 10 µA
- switching time 2 ms

PXI 3156 14 Multiplexers



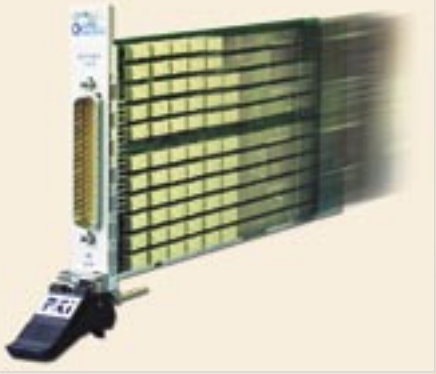
Recommended application areas
- general test and measurement systems
- measuring multiplexer
- matrix up to 2 A

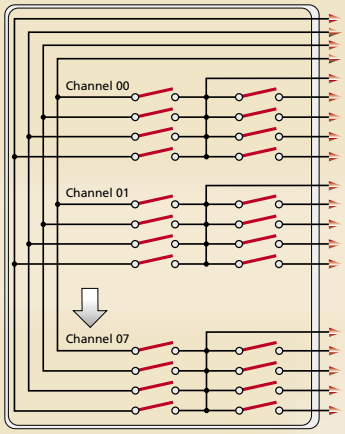


Technical data
- 14 multiplexer channels
- max. switching current (DC) per channel 2 A at 30 VDC
- max. switching voltage 10 mV...100 VDC
- max. switching power 60 W
- min. switching current 10 µA
- total current for COM_H or COM_L max. 4 A
- switching time 10 ms

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PXI 3157 8 Mutiplexers





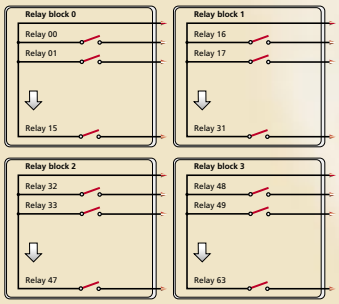
Recommended application areas
- general test and measurement systems
- measuring multiplexer
- matrix up to 2 A

Technical data
- 8 multiplexer channels
- max. switching current (DC) per channel 2 A
- max. switching voltage per channel 100 V
- max. switching power per channel 60 W
- min. switching current 10 µA
- total current for COM 1, 2, 3 or 4, max. 4 A
- switching time 10 ms

PXI 3164 4 x 16 Relay Matrix



Recommended application areas
- general test and measurement systems
- matrix for functional testing

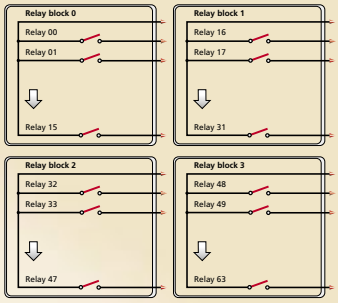


Technical data
- 64 relays in 4 blocks (16 rows by one column)
- max. switching current (DC) per row 1 A (DC) at 30 VDC
- total current for one column per block max. 1 A at 30 VDC
- max. switching voltage 10 mV...100 VDC
- max. switching power 30 W
- min. switching current 10 µA
- switching time 10 ms

PXI 3165 4 x 16 Relay Matrix
semiconductor



Recommended application areas
- general measurement technology
- test and measurement systems
- telecommunication

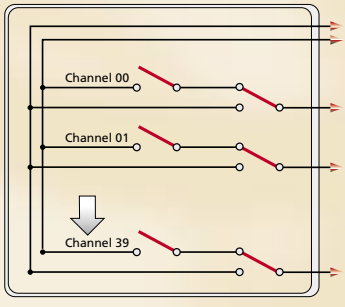


Technical data
- total current for one column per block max. 1 A at 30 VDC
- max. switching current per relays 0.3 A
- max. switching voltage 10 mV...100 VDC
- min. switching current and voltage 10 µA
- 4 x 16 to 1 matrix
- max. 1 µA residual current per relays at OUT
- max. power per relays 450 mW
- switching time 2 ms

PXI 3181 Multiplexer 40 x 2 to 1



Recommended application areas
- general test and measurement systems
- switcher simulation
- measuring multiplexer



Technical data
- 40 multiplexer channels (2 to 1, fixed)
- max. DC switching current per channel 1 A at 30 VDC
- max. switching voltage 10 mV...100 VDC
- max. switching power 60 W
- min. switching current 10 µA
- total current for COM_H or COM_L max. 4 A
- switching time 10 ms

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4. Analog cards

All sorts of applications need to generate analog signals or transform them into digital models. The following modules help to perform these tasks. They are particularly good at generating synchronous analog signals (waveforms). A programmable comparator module is available to measure and evaluate analog signals. It gives a direct PASS/FAIL result.

Type	Out-put	Input	Resolu-tion	Storage per channel	Sampling rate	Voltage range	Galvanic isolation	Arbitrary function
3216	16	—	12 Bit	32 k	100 kHz	0…10 V	✓	✓
3220	8	—	12 Bit	64 k	500 kHz	-10...+10 V	✓	✓
3240	—	16	12 Bit	—	1 kHz	-70…+70 V	✓	—

These modules for analog signals are suitable for inclusion in functional test systems based on the CompactPCI and PXI buses. They can also be used for individual applications where analog signals must be generated or evaluated.

PXI 3216 Analog Output 16 channels



Recommended application areas
- general purpose signal generation
- arbitrary waveform generator

Technical data
- 16-channel arbitrary voltage output
- 12 Bit resolution
- update rate programmable to 100 kHz
- 32 kWord storage per channel
- max. output current 5 mA
- 16 fold synchronous analog output

PXI 3220 Analog Output 8 channels



Recommended application areas
- general purpose signal generation
- arbitrary waveform generator

Technical data
- 8-channel arbitrary voltage output (-10 V…+10 V)
- 12 Bit resolution
- update rate programmable up to 500 kHz
- 64 kWord storage per channel
- 100 ns precision timing update
- max. output current 5 mA
- 8 simultaneous analog voltage outputs

PXI 3240 16 Channel Comparator



Recommended application areas
- general test and measurement systems
- functional test
- signal supervision

Technical data
- 16 input channels
- input voltage range -70 V…+70 V
- dual level digital comparison programmable per channel
- analog measurement function

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5. Other cards

It is common for test applications to require very special signals. Modules which can generate, influence and evaluate such signals are summarized in this section. All of these modules can be applied in functional test systems based on CompactPCI or PXI.

PXI 4008 8 Channel Resistance Simulator



Recommended application areas

- general test and measurement systems
- simulation of resistances

Technical data

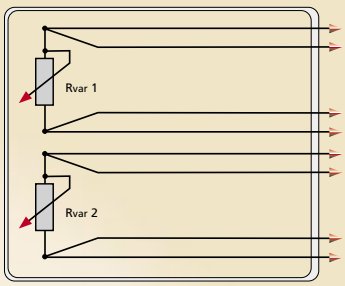
- 8 resistance channels
- 4 resistance values per channel
- switching voltage is 10 mV...100 VDC
- max. switching power 500 mW
- setting time 10 ms

PXI 4009 Resistance Decade (planned)



Recommended application areas

- general test and measurement systems
- Simulation of resistances



Technical data

- range 1Ω to 1 MΩ
- precision ±1%
- max. power dissipation 0.5 W

PXI 4010 Transmitter Simulator



Recommended application areas

- general test and measurement systems
- test of encoder interfaces

Technical data

- track A, B and 0: 25 V signal single-ended
- track A, B and 0: 5 V differential signal
- programmable count direction
- output frequency 20 kHz
- interface for SSI transmitter

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PXI 4011 Incremental Transmitter Simulator



Recommended application areas

- general test and measurement systems
- test of encoder interfaces

Technical data

- 4 channels
- output current 5…30 V
- frequency 0.5 Hz…200 kHz
- application side is isolated or ungrounded
- deliverable with open collector or push-pull output stages
- various operation modes
- continuous, one-time, cyclic signal output
- fault simulation possible by means of leaving out single increments
- 3 signals per channel A, B, Index

6. JTAG/Boundary Scan PXI Modules

The large selection of innovative extension modules for the PXI bus platform includes special Boundary Scan Power Supplies and Digital I/O modules for integration into PXI based ATE systems.

SFX/PXI 1149-x SCANFLEX® Controller



Technical data

- PXI (3U/1slot) Controller
- operation in 3.3 V / 5 V PXI and cPCI racks
- 1 x SFX and 2 x SFX/LS connector
- 1 - 8 independent TAPs
- support of ADYCS™ (Active Delay Compensation), HYSCAN™, FASTSCALE™
- support of Trigger Bus, Star Trigger, Local Bus left and Local Bus right
- further features in connection with Desktop and Industrial SCANFLEX® TAP Transceivers

	1149-A	1149-B	1149-C
TCK in MHz	20	50	80
Scan Memory Architectur	Data Buffer	Space II	Space II-S

PXI 5702 Boundary Scan Mixed Signal I/O



Technical data

- two driver and sensor channels independent of each other
- voltage range for digital control between -3 V...+9 V
- analogue voltage range for discrete voltage value output -10 V...+10 V
- maximum output current static ± 200 mA and dynamic ± 380 mA
- back driving function dependent on the test bus states
- programmable current limit
- can be synchronised with the Boundary Scan controllers PXI 1149.1-A/B
- optimised for use with the Boundary Scan Prober or a manually handled probe

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PXI 5120 Boundary Scan Power Supply

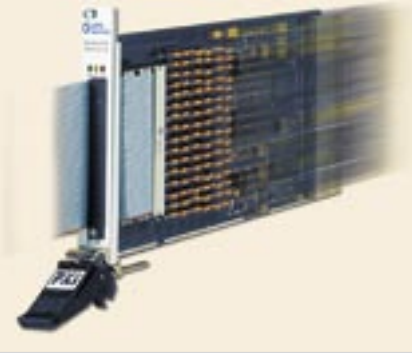


Technical data

- operation in 3.3 V / 5 V PXI and cPCI racks
- two independent and galvanically isolated voltage outputs
- programmable current limit 0…10 A
- setting of output voltage and current limit via the host interface
- recording of output voltage, output current and overcurrent flag
- use of trigger signals for the event control
- interconnection of the C-bus via Trigger Bus, Star Trigger, Local Bus, as well as external
- available in 5 variants:

2 V version	0.5 V ... 2 V
3 V version	1.2 V ... 3.3 V
5 V version	2.5 V ... 5.5 V
12 V version	5 V ... 12 V
24 V version	11 V ... 24 V
48 V version	23 V ... 48 V

PXI 5348 Boundary Scan Differential I/O



Technical data

- operation in PXI and cPCI racks
- 48 differential test channels
- the PXI increment supports the following differential standards:
  - LVDS (24 inputs, 24 outputs)
  - BLVDS (48 bi-directional differential lines)
  - LVPECL (24 inputs, 24 outputs)
- depending on the I/O-Standard each channel is input, output or bi-directional
- driver power per test channel is dependent on the selected I/O standard
- all data are transferred in parallel by means of the PXI interface
- each configuration supports JTAG/Boundary Scan according to IEEE 1149.1, the test bus signals are supplied via PXI specific signals

PXI 5296 Boundary Scan Digital I/O



Technical data

- operation in PXI and cPCI racks
- 96 test channels
- all channels can be interconnected in HOT-SWAP mode – safe contacting is possible without PXI system being switched off
- 96 test channels are subdivided into three groups with 32 channels each
- each group is programmable from 1.8 V to 5 V
- each channel is switchable as input, output or bi-directional pin, and 5 V tolerant
- driver current per channel: ±24 mA @ 5 V

PXI 52192 Boundary Scan Digital I/O



Technical data

- operation in PXI and cPCI racks
- 192 test channels, 96 on each ground or top board
- all channels can be interconnected in HOT-SWAP mode – safe contacting is possible without PXI system being switched off
- the 192 test channels are subdivided into six groups with 32 channels each
- each group is programmable from 1.8 V to 5 V
- each channel is switchable as input, output or bi-directional pin, and is 5V tolerant
- driver current per channel: ±24 mA @ 5 V

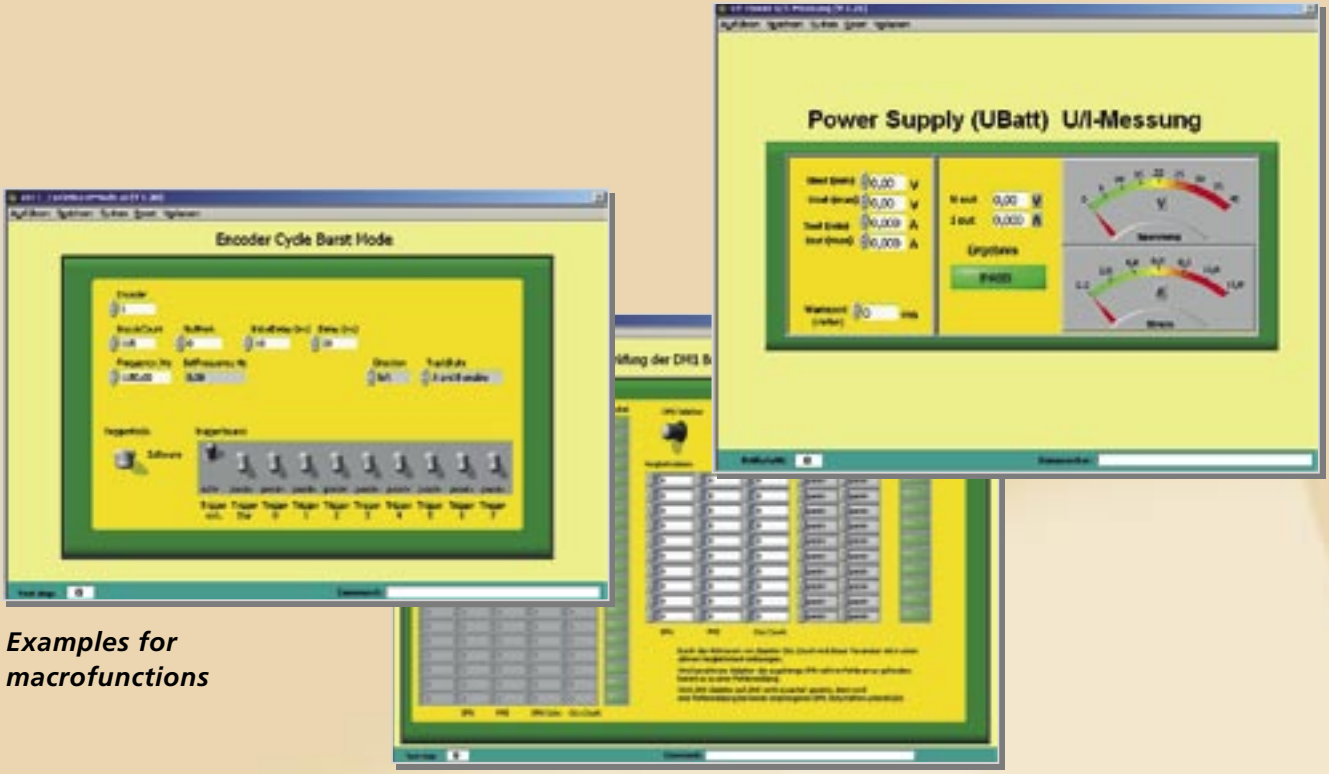
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7. Software support

GÖPEL electronic's PXI boards are supplied complete with software interfaces for Microsoft Windows NT4.0 and Windows 2000/XP. Each card has a driver (SYS file) which is installed using Windows NT4.0 or Windows 2000/XP. Additionally, a DLL (Dynamic Link Library) is supplied for each PXI board. The DLL supports communication between the application and the board and is used as part of the normal programming interface to the board. For each board there is also a detailed manual explaining the function calls in the DLL. The manual helps the user to implement various functions in the target application. The DLL can easily be accessed, for instance, under C++ and LabWindows CVI. Nowadays, an enormous number of test and measurement applications are developed with LabVIEW, the programming language from National Instruments.

LabVIEW users can also integrate our PXI boards into their applications using a VI-library which GÖPEL electronic provides for most PXI boards. If a VI-library is available as standard, it is part of the board's scope of supply. The LabVIEW libraries can be used from version 6.0 on.

Complete functional test systems, such as TESSY, use their own Test Sequencer system software. The Test Sequencer uses macros to program each system component. These macros allow the various programmable parameters for each component of the functional test system to be set up quickly and easily. The majority of these components are PXI boards. Therefore, a number of macros to program modules via the test sequencer are available. For complete systems the macros can be delivered with the test sequencer on request.



Examples for macrofunctions

All products comply with the PXI specifications R2.1 and Compact PXI PICMG 2.0 R3.0. GÖPEL electronic is member of the PXI Alliance, an association of global manufacturers and system integrators of PXI components. More information about the PXI System Alliance can be found at http://www.pxisa.org. Further information about the PXI technology is to be found at National Instruments' website http://www.ni.com.

GÖPEL electronic

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