

PXI - System Controller



Innovative concept

High performance PXI Controller offered by INES. The engine of your measurement application with integrated service concept. Using a modular approach, the processor core is separate from the peripheral devices. Sensible electronics and mechanical drives are placed on different modules. If the electronics needs to be replaced in the field, the installed software will stay on the drives in the system. This will save your service technician a lot of time and you a lot of money.

Modularity = Flexibility

Simultaneously, our PXI controllers provide a maximum of flexibility. Regardless of whether you choose a power saving Pentium CPU or a high performance Pentium III... the integrated interfaces will always stay the same. And here, we provide everything you could wish for: a 100Mbit Ethernet and a GPIB interface are built-in. All interfaces may be accessed through a rear IO adapter.

Keep control

Reliability is of great importance to us. Therefore, we monitor all supply voltages and board temperature. To be able to react before a critical state is reached.

Technical Data

PXI Bus

- PXI Bus Rev. 2.0
- CompactPCI Bus Rev. 3.0
- PXI trigger lines with flexible trigger protocols.

- Pentium 266MHz to Pentium III 400MHz
- Max. 256MB DRAM
- PXI 2.0 / CPCI 3.0 compatible
- Integrated GPIB interface
- integrated 10/100Mbit Ethernet
- Standard PC interfaces
- Modular concept separates processor and mechanical drives
- High serviceability
- flexible configuration of interfaces

CPU

- Mobile Pentium 266MHz to Pentium III 400MHz
- 256MB SDRAM max.

Graphics

- CRT up to 1600x1200
- Integrated flat panel support (LVDS)

Interfaces

- COM ports
- COM1/2 use RS232 interface
- COM3/4 configurable
- LPT port with support for ECP/EPP modes
- PS/2 keyboard and mouse
- USB port

GPIB Interface

- i72010 IEEE-488.2 controller,
- compatible with NEC7210 and TMS9914

Ethernet Interface

- i82559ER Ethernet controller
- 10/100BT interface
- Full duplex support
- Autonegotiation

Hard Disk

- integrated 2.5" HDD (typ. 4 to 8GB)
- floppy disk drive

- CDROM or additional HDDs may be connected through rear I/O adapter

Watchdog

- Monitors board temperature and all supply voltages
- Monitors and controls system fans
- Hardware-triggered alarm with relay output.
- Prepared for connecting additional temperature sensors

Mechanics

- IEEE1101.x compatible
- Modular concept: effective width 8TE, 12TE or 16TE
- covers only 1 slot of the PXI
- backplane
- CPU module is 8TE wide
- IO module is 4TE wide
- slot IO backplane
- Optional floppy disk driver is 4TE wide
- Optional extension through rear IO module (100x100mm) according to IEEE1101

Environment

- Temperature: 0..50°C
- Humidity: 10..90% non
- Condensating altitude: - 300m...3000m
- Shock: 15g/0.33ms, 6g/6ms
- Vibration: 1g/5...2000Hz

Software

- Windows® NT®/2000 driver
- LabView®/CVI, Agilent VEE, HT-Basic, C++ support
- LINUX in preparation

INES GmbH
Goettinger Chaussee 115
30459 Hannover
Germany

Tel.: +49-511-943810
FAX.: +49-511-9438122

<http://www.inesinc.com>



The terms used in this datasheet are registered trademarks and/or product names of their respective companies. Windows®, Visual-Basic®, Visual-C++® are Trademarks of Microsoft Corp., USA. LabView®, LabWindows® and PXI® are registered trademarks of National Instruments. We reserve the right to make technical changes or improvements without notice.