

cPCI-GPIB

IEEE 488.2 GPIB Interface Module for PXI and CompactPCI

Features

- PXI Specifications Rev. 2.0 Compliant
- 3U Eurocard form factor, CompactPCI compliant (PICMG 2.0 R2.1)
- Full compatible with IEEE 488.2 GPIB interface
- > 1 Mbyte/sec transfer rate
- Support VISA/SICL (Standard Instruments Control Library) standard
- Usage of iGPIB chip enhanced mode in driver provides:
 - Full synchronous operation by chip design
 - 510 byte FIFO for handling complete SCPI strings in one step.
 - Hardware Time-out counter.
 - Extended EOS byte handling
- Optional driver for other operating systems (call for availability)

Operating Systems

- Windows 3.x/95/98/NT/2000

Recommended Software

- Datalog DASyLab®
- GfS Digis and DIAdem®
- HP BenchLink®
- HP VEE®
- Keithley TestPoint®
- LabTech Notebook®
- National Instruments LabWindows®
- National Instruments LabView®
- National Instruments Measure Studio®



Introduction

The PCI-based cPCI-GPIB card supports IEEE 488.2, SCPI, and VISA/SICL standards. IEEE 488.2, or GPIB (General Purpose Instrument Bus), is an industry standard for instrumentation communication and control. The cPCI-GPIB card uses enhanced features of the ines iGPIB chip in conjunction with state-of-the-art Plug and Play technology to help users easily create a system equipped with multiple instruments through a standard interface.

In addition to the enhanced hardware features, the cPCI-GPIB card also provides a wide selection of software support. Users may choose familiar applications or programming languages to create test and measurement systems that operate with diverse stand-alone instruments.

Specifications

Bus Properties

- Up to 15 instruments can be connected to one controller
- Maximal data transfer rate: 1 MByte per second
- Cable length:
 - 20 m between controller and one device
 - 2 m between each device
- Data transfer mode: 8 bit parallel
- Handshake: '3 wire handshake', reception of each data byte is acknowledged

Programming Language Interface

- HP Basic®
- Microsoft Visual Basic®
- Microsoft Visual C++®
- Borland Delphi®
- Borland C++®
- Borland Turbo Pascal®

Application Interface

- Datalog DasyLab®
- GfS Digis and DIAdem®
- HP BenchLink®
- HP VEE®
- Keithley TestPoint(r)
- LabTech Notebook®
- NI LabView®
- NI LabWindow®

General Specifications

- Connector: IEEE 488 standard 24-pin connector
- Operation temperature: 0 to 60 °C
- Relative humidity: 5 to 95%, noncondensing
- Dimensions (not including connectors)
160 mm x 100 mm

Ordering Information

- cPCI-GPIB
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