GPIB-PMC-XL

PCI Mezzanine Card IEEE-488.2 GPIB Interface

Features

- for 3.3V or 5.0V slots
- 1KByte transfer FIFO for optimum performance
- GPIB-32.DLL compatible, runs VEE, LabVIEW etc.
- Windows (7, Vista, XP, 2000), Linux, QNX

Overview

The GPIB-PMC-XL is a PCI Mezzanine Card (PMC) GPIB controller card that converts any CPU card with PMC slots into a GPIB controller.

It performs all the basic IEEE-488.1 functions such as talker, listener and system controller. The IEEE-488.2 compatible funcions make it fully compliant with the IEEE-488.2 specification. In controller applications, you can control typically up to 15 devices (instruments). If operated as a talker/listener (device) interface it does exchange data and state information with the current controller-in-charge of the GPIB bus. The GPIB-PMC-XL lets Windows and Linux programs control GPIB devices.

Hardware

The GPIB-PMC-XL card plugs onto any PMC slot (5.0 and 3.3VVIO slots are supported). A highly flexible cable of two (2) meters length (four (4) meters optional) connects the card and the 24 pin STD IEEE488 plug.

Software

Windows The Windows software set is included with the GPIB-PMC-XL. It is a WDM driver and supports Windows (7, Vista, XP, 2000) on all PC compatible platforms. Libraries and header files are included for the Visual C++, Visual Basic, MINGW and Delphi development systems. An industry standard compatible GPIB-32.DLL supports nearly all applications designed for that interface, including applications developed for LabView 6+, LabWindows, Agilent VEE, TransEra HT-Basic, Agilent Intuilink, and more.
Linux The Linux software set is included with the GPIB-PMC-XL. It supports the Intel (x86) platform Linux kernel versions 2.4 and 2.6. Thus it is compatible with all Linux distributions based on that kernels, e.g. Ubuntu, RedHat, SuSE etc. Application development using the GNU Compiler Collection (GCC) is supported. The ig++ class library provides all interfaces required to control instruments. In addition, IEEE488.2/SCPI compatible instruments can be implemented using Linux based embedded systems.

Specifications

GPIB Capabilities

IEEE 488.1 Capabilities: AH1, SH1, T/TE5, L/LE3, SR1, RL1, PP1/PP2, DC1, DT1, C1, C2, C3, C4, C5
IEEE 488.2 Capabilities: includes the capability to read the following bus lines:EOI, ATN, SRQ, REN, IFC, NRFD, NDAC, DAV
GPIB Handshake Rate: > 1Mbytes/sec

Environmental and Physical

Size (excluding bracket)**:** PMC form factor, 149 mm H x 74 mm W x 10 mm D (5.87 in x 2.92 in)
Weight (net)**:** 70 g
Operating ambient temperature: 0 to 50°C
Storage temperature: -20 to 80°C
Relative humidity: 5 to 95%, noncondensing

Ordering Information

GPIB-PMC-XL - Card, Cable (2m), Software CDROM
  Option -4M - Cable (4m)
CAB-GPHI - Spare Cable (2m) for GPIB-PMC-XL
  Option -4M - Cable (4m)

On the Web

Click www.inesinc.com for more information and resources.

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