NI PMC-GPIB

GPIB Interface for PCI Mezzanine Bus

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GPIB Interface for PCI Mezzanine Bus

NI PMC-GPIB

- Completely IEEE 488.2 compatible
- FIFO buffers to decouple GPIB transfers from PCI transfers
- Maximum GPIB transfer rates
  - More than 1.5 Mbytes/s (IEEE 488.1)
  - More than 7.7 Mbytes/s (HS488)
- Complete compatibility with most recent PMC specifications
- Bus-master DMA controller
- Plug and Play for easy hardware installation

Operating Systems

- Windows 2000/NT/XP/Me/9x
- Any operating system (NI-488DDK)

Recommended Software

- LabVIEW
- LabWindows/CVI
- Measurement Studio

Driver Software (included)

- NI-488.2
- NI-488DDK

Overview

The National Instruments PMC-GPIB is a low-cost, high-performance IEEE 488 interface for PMC bus – the PCI Mezzanine Card standard (IEEE P1386.1). It is a standard for mezzanine interfaces for VME motherboards.

PMC is electrically a superset of desktop PCI with a different physical configuration. An NI TNT family ASIC performs the basic IEEE 488 Talker, Listener, and Controller functions required by the IEEE 488.2 standard and increases the maximum data transfer rate of ANSI/IEEE 488.1-1987 to 8 Mbytes/s using the high-speed GPIB protocol (HS488).

The NI PMC-GPIB is available with NI-488.2 for Windows 2000/NT/XP/Me/9x. Alternatively, you can use the NI-488DDK, a comprehensive source-code package for developing applications for other operating systems. NI-488DDK consists of more than 20 board-level functions provided in source code to give you a head start when you must design your own GPIB driver. NI-488DDK, a subset of our NI-488.2, uses the same syntax for straightforward migration of applications from NI-488DDK to NI-488.2.

Ordering Information

PMC-GPIB, NI-488.2, and 2 m GPIB cable for
- Windows 2000/XP/Me/98 778040-01
- Windows NT 777485-01
- Windows 95 777486-01

PMC-GPIB, NI-488DDK, and 2 m GPIB cable 777431-01

BUY ONLINE!

*Visit **ni.com/info** and enter pmcgpib.*

Specifications

IEEE 488 Compatibility
IEEE 488.1 and IEEE 488.2 compatible

Maximum IEEE 488 Bus Transfer Rate
IEEE 488 interlocked handshake ..... 1.5 Mbytes/s
IEEE 488 non-interlocked (HS488) handshake ... 7.7 Mbytes/s
(Actual rates depend on system configuration and instrument capabilities.)

Power Requirement
+5 VDC ..... 600 mA typical

Physical
Dimensions ..... 7.4 by 14.9 cm (2.9 by 5.9 in.)
I/O connector ..... Micro D-Sub 25 pin

Operating Environment
Ambient temperature ..... 0 to 55 °C
Relative humidity ..... 10 to 90%, noncondensing

Storage Environment
Ambient temperature ..... -20 to 70 °C
Relative humidity ..... 5 to 95%, noncondensing

Compliance
Online at ***ni.com/hardref.nsf***

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