Low-Cost GPIB Interface for ISA

Overview
The National Instruments GPIB-PCII/IIA is a full-function, low-cost IEEE 488 interface for PCs with ISA slots. The NI GPIB-PCII/IIA is compatible with all NEC µPD7210-based GPIB-PCII and GPIB-PCIIA boards, as well as interface boards that use the TI TMS 9914A controller chip. The board can also share interrupts when used in the GPIB-PCIIA mode.

The NAT4882 chip performs the basic IEEE 488 Talker, Listener, and Controller functions, as well as all the remaining Controller functions required by IEEE 488.2. By integrating the complete PC bus interface into the NAT 4882, the GPIB-PCII/IIA has unsurpassed flexibility and reliability. The NAT 4882 also significantly increases the throughput of the associated NI-488.2 by performing operations in hardware that were previously possible only in software.

Hardware Options
With DIP switches, you can select either GPIB-PCII or GPIB-PCIIA compatibility, NEC µPD7210 or TI TMS 9914A controller, software compatible with GPIB-PCII and GPIB-PCIIA boards of the past, and choice of three DMA channels and six interrupt lines.

Specifications
- IEEE 488 Compatibility
  - IEEE 488.1 and IEEE 488.2 compatible
- Maximum IEEE 488 Bus Transfer Rates
  - Standard IEEE 488 handshake ......................... More than 300 kbytes/s
- Power Requirement (from ISA I/O Channel)
  - +5 VDC ............................................................ 250 mA typical, 490 mA maximum
- Physical
  - Dimensions ..................................................... 10.7 by 11.1 cm, (4.2 by 4.4 in.)
  - I/O connector ................................................... IEEE 488 standard 24-pin
- Operating Environment
  - Component temperature ................................. 0 to 55 °C
  - Relative humidity ............................................. 10 to 90%, noncondensing
- Storage Environment
  - Temperature ................................................. -20 to 70 °C
  - Relative humidity .......................................... 5 to 95%, noncondensing
- Electromagnetic Interference
  - FCC Class B certified
- Compliance
  - Online at ni.com/hardref.nsf

Ordering Information
NI GPIB-PCII/IIA
- Operating Systems
  - Windows Me/9x/3.1
  - DOS
- Recommended Software
  - LabVIEW
  - LabWindows/CVI
  - Measurement Studio
- Driver Software (included)
  - NI-488.2

GPIB-PCII and NI-488.2 for
- Windows Me/9x ................................................. 777463-01
- Windows Me/9x (2 m cable) ............................... 777463-51
- Windows 3.1/DOS ............................................. 776092-01
- Windows 3.1/DOS (2 m cable) ......................... 776092-51
- GPIB-PCIIA and NI-488.2 for
  - Windows 3.1/DOS ............................................. 776113-01
  - Windows 3.1/DOS (2 m cable) ......................... 776113-51

X2 GPIB Cables
- 1 m .............................................................. 763061-01
- 2 m .............................................................. 763061-02
- 4 m .............................................................. 763061-03
- 8 m .............................................................. 763061-04

BUY ONLINE!
Visit ni.com/info and enter gpibpiiiia.