GPIB Interfaces for IBM Computers and Workstations

MC-GPIB, GPIB-RS/6000

NAT4882 ASIC

Completely IEEE 488.2 compatible Compatible with NEC µPD7210 controller chip

Additional features reduce software overhead

Turbo488 ASIC

FIFO buffers for decoupling GPIB transfers from Micro Channel transfers

16-bit Micro Channel interface with byte-to-word packing and unpacking in hardware

Transfer rate

More than 1 Mbytes/s PS/2 POS circuitry for automatic selection of I/O address. interrupt level, and DMA channel (no hardware jumpers or switches)

NI-488.2M Software

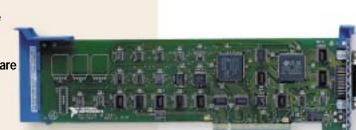
OS/2 AIX

NI-488.2 Software

Windows 3.1 DOS

Application Software

LabVIEW LabWindows/CVL LabWindows



Computer/Bus	Processor
PS/2 Micro Channel,	Intel x86, Power RISC
IBM RS/6000 Micro Channel	

Overview

The MC-GPIB and GPIB-RS/6000 are high-performance IEEE 488 interfaces for IBM PS/2 and compatible computers and IBM RISC System/6000 workstations that have 16-bit Micro Channel plugin slots, respectively. The National Instruments NAT4882 and Turbo488 ASICs make the boards maximum-performance IEEE 488.2 interfaces. Standard IEEE 488 cables connect the boards to up to 14 instruments.

Part Numbers

Hardware and Software MC-GPIB and NI-488 2 for

DOS/Windows776183-01

MC-GPIB and NI-488.2M for

OS/2776210-01

GPIB-RS/6000 (includes MC-GPIB and NI-488M for

AIX)......776386-01

Hardware, Software, and GPIB Cable

MC-GPIB, NI-488.2 for

DOS/Windows and

NI-488.2M for OS/2.....776764-01

Specifications

IEEE 488 Compatibility

Compatible with IEEE 488.1 and IEEE 488.2 IEEE 488 Bus Transfer Rate..... > 1 Mbytes/s (actual rates depend upon system configuration and instrument capabilities)

Power Requirement (from Micro Channel)

+5 VDC 1.0 A typical, 1.6A max Physical

(3.5 by 11.5 in.) I/O connector IEEE 488 standard 24-pin

Operating Environment

Storage Environment

Temperature -20° to 70° C Relative humidity 5% to 90%, noncondensing