

GPIB Interfaces for IBM Computers and Workstations

MC-GPIB, GPIB-RS/6000

NAT4882 ASIC

Completely IEEE 488.2 compatible
Compatible with NEC μ PD7210 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/CVI
LabWindows



MC-GPIB, GPIB-RS/6000

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

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 plug-in 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

2 m X2 GPIB cable776183-51

Software

NI-488.2M for OS/2776764-01

GPIB Instrument Control

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

Dimensions 8.9 by 29.2 cm
(3.5 by 11.5 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 90%, noncondensing