

NATIONAL INSTRUMENTS

PCI-GPIB

The National Instruments PCI-GPIB is a high-performance plug-and-play GPIB controller interface card for PCs and workstations with PCI expansion slots. Equipped with the NI TNT4882C controller ASIC, it provides standard IEEE 488.1/IEEE 488.2 compatibility and supports the high-speed HS488 transfer protocol.

SPECIFICATIONS

General

Interfaces	PCI (Host), 24-pin GPIB IEEE 488 (External)
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Physical

Power Supply	PCI bus-powered
Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	134 mm × 107 mm mm

System & Chassis Architecture

Host Bus Type	PCI
PCI Slot Compatibility	3.3 V or 5 V universal PCI slot, 32-bit
PCI Specification Compliance	PCI Local Bus Specification Revision 2.2

RF, Electrical & Calibration Performance

GPIB Standard Compatibility	IEEE 488.1, IEEE 488.2
Maximum Standard Transfer Rate	1.5 MB/s
Maximum HS488 Transfer Rate	7.7 MB/s
Number of GPIB Ports	1
Connector Type	24-pin IEEE 488 standard
Maximum Cable Length	20 m (or 2 m per device, whichever is less)
Maximum Device Connection	Up to 14 instruments (total of 15 devices including controller)

Software & Programming

Driver Support	NI-488.2
Supported Operating Systems	Windows, Linux, macOS
Application Programming Interfaces	NI-488.2 API, NI-VISA, LabVIEW, LabWindows/CVI

Environmental Specifications

Storage Temperature Range	-20 to 70 °C
Operating Humidity	10% to 90% RH, noncondensing
Storage Humidity	5% to 95% RH, noncondensing

Host Interface

PCI Signaling Voltage	3.3 V and 5 V (Universal key)
PCI Bus Width	32-bit
PCI Clock Frequency	33 MHz

Power Requirements

Typical Current Draw	120 mA (+5 VDC)
Maximum Current Draw	180 mA (+5 VDC)

Environmental

Maximum Altitude	2,000 m
Pollution Degree	2

TECHNOLOGY

GPIB (IEEE 488)

APPLICATIONS

Instrument Control and Automation

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.