Product Datasheet - Technical Specifications

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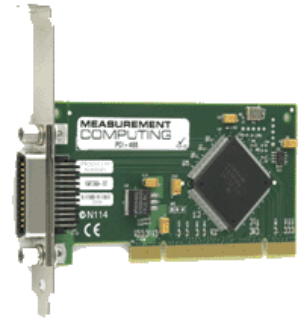
Downloads:
www.meilhaus.com/en/infos/download.htm

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PCI-488

High-Performance IEEE-488.2 GPIB Interface
for PCI-Bus Computers

Features

The PCI-488 is an IEEE 488.2 standard PCI interface, and is supported under popular Microsoft® Windows® operating systems and LabVIEW™.

The PCI-488 has the following features:

- Complete Talker/Listener/Controller functionality
- Data transfer rates over 1 MB/s
- A 1024-word FIFO buffer
- Seven interrupt lines, and a shared interrupt capability
- Complies with the Restriction of Hazardous Substances directive (RoHS)

The PCI-488 interface converts any PCI bus personal computer into an instrumentation control and data acquisition system.

Optional cables

You can connect up to 14 instruments using standard IEEE-488 cables such as Measurement Computing's C488-1M (one meter) or C488-2M (two meter) cables.

C488-1M   **C488-2M**

The PCI-488 transfers data over the GPIB at rates over 1 million bps using the maximum IEEE-488 specification cable length (two meters x the number of devices).

Other resources

- The *GPIB-488 Software and Product Information* booklet explains how to install the software on the GPIB-488 software CD. This booklet is on the root of the software CD in GettingStartedGuide.pdf.
- The *GPIB-488 Programming Reference Manual* explains how to program the PCI-488 using the GPIB library software included with the board. This manual is installed with the software to the root folder in GPIBProgrammingReferenceManual.pdf.

Specifications

IEEE 488 compatibility

Compatible with IEEE 488.1 and IEEE 488.2.

Capability code	Explanation
SH1	Source Handshake
AH1	Acceptor Handshake
T5, TE5	Talker, Extender Talker
L3, LE3	Listener, Extender Listener
SR1	Service Request
PP1, PP2	Local/Remote Parallel Poll
RL1	Remote/Local
C1, C2, C3, C4, C5	Controller
E1, E2	Three-state bus drivers with automatic switch to open collector during parallel poll

Maximum IEEE 488 bus transfer rate

IEEE 488 interlocked handshake   1.5 MB/s

Actual rate depends on system configuration and instrument capabilities.

Power consumption

- +3.3 VDC
- 0.4 W typical, 0.6 W maximum

Physical dimensions

12.0 cm (L) x 6.44 cm (W) (4.72 in. (L) x 2.54 in. (W))

Standard PC bracket (low profile bracket is not available)

I/O Connectors

IEEE 488 standard 24-pin

Environment

- Operating specifications:

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

- Storage specifications:

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

MEASUREMENT COMPUTING