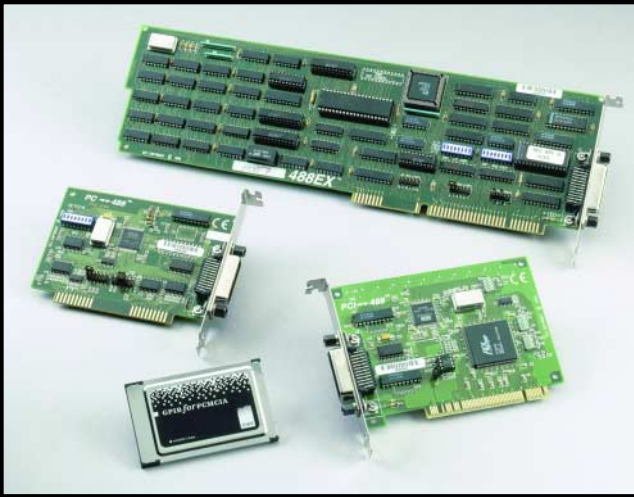# IEEE-488 (GPIB) Interface Boards

Keithley's GPIB interface boards make it easy to add standard IEEE-488.2 bus control to any PC. These high-speed boards can serve as a talk/listen device or can operate as a system controller, controlling as many as 14 GPIB instruments or other devices over a distance of up to 20 meters. They are ideal for use with automated test equipment in laboratory and industrial applications.

Software

Included utility software simplifies the setup and use of the Keithley GPIB interface boards and saves programming time.

Every board ships with a universal language driver, 16- and 32-bit dynamic link libraries for languages running under Windows, and drivers for virtually any programming language. This adds up to full compatibility with a full array of software including:

- **PCI (with FIFOs), ISA and PCMCIA bus versions**
- **IEEE-488.2 compatible for fast data transfer**
- **Windows XP/Me/2000/NT/98/95/3.X drivers included**
- **TestPoint, LabVIEW and LabWindows/CVI support**
- **Compatible with any standard GPIB instrument product, such as Tektronix oscilloscopes**

Ordering Information

KPCI-488
  IEEE-488.2 interface card for PCI Bus

KPC-488.2
  IEEE-488.2 interface card for ISA Bus/XT (half slot)

KPC-488.2AT
  IEEE-488.2 interface card for ISA Bus/AT (full slot)

KPCMCIA-GPIB
  IEEE-488.2 interface card for PCMCIA slot (laptop PC) – cable included

Keithley Software Packages (optional):
- Keithley startup software and TestPoint Runtime programs for instruments
- ExceLINX-1A for instruments

Common Programming Environments:
- TestPoint
- Visual Basic
- Visual C++
- LabVIEW and LabWindows™/CVI (VISA and IEEE-488.2)
- Microsoft Excel VBA
- HP VEE

Older programming languages:
- C/C++
- Basic
- Basic 7
- Qbasic
- QuickBasic
- Pascal
- Delphi
- FORTRAN

Hardware Compatibility

These GPIB Interface boards are fully compatible with all Keithley's GPIB capable instruments including but not limited to:
- 2000 Series DMMs
- 2400 Series SourceMeter instruments
- 2700 Series Switch/Measure Systems
- 6500 Series Electrometers
- 7000 Series Switch Systems

	KPCI-488	KPC-488.2	KPC-488.2AT	KPCMCIA-GPIB
Bus/Form Factor	PCI	ISA/XT	ISA/AT	PCMCIA
Dimensions	5.25×3.63 in. (133×92 mm)	half slot	full slot	Type II PCMCIA (5mm)
Power (Current @ 5VDC)	360 mA typ. 500 mA max	800 mA typ.	1200 mA typ. 1650 mA max.	1.3 A typ. 2.5 A max.
Transfer Speed	1.5 Mbyte/s	350 kbyte/s	1.5 Mbyte/s	> 1.0 Mbyte/s
Safety	EN61010-1/ IEC 1010	EN61010-1/ IEC 1010	EN61010-1/ IEC 1010	EN50081-1, EN50082-1
EMC	European Directive 89/336/EEC	European Directive 89/336/EEC	European Directive 89/336/EEC	European Directive 89/336/EEC
Environmental	**Operating:** 0°–50°C, 10%–90% RH non-condensing. **Storage:** −20°–70°C, 5%– 90% RH non-condensing	**Operating:** 0°–50°C, 10%–90% RH non-condensing. **Storage:** −20°–70°C, 5%– 90% RH non-condensing	**Operating:** 0°–50°C, 10%–90% RH non-condensing. **Storage:** −20°–70°C, 5%– 90% RH non-condensing	−40°–80°C, 0%–95% RH non-condensing

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