

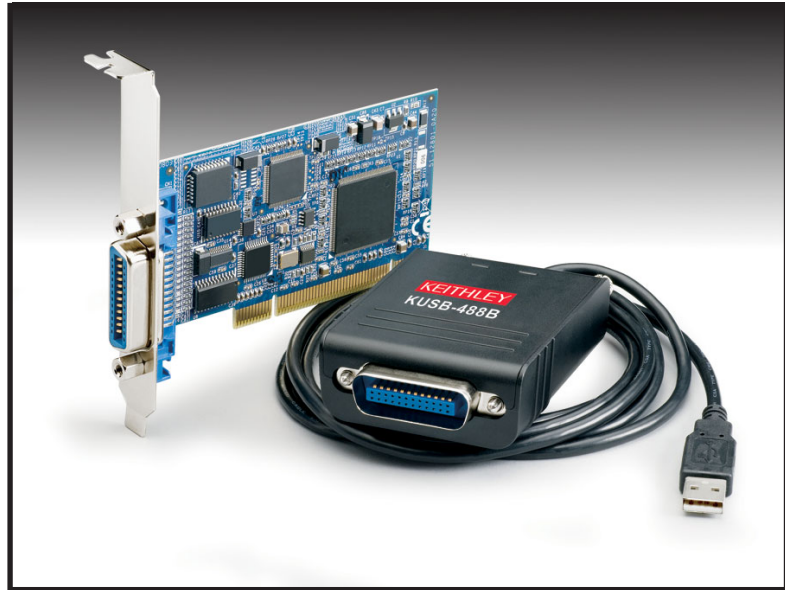
# IEEE-488 (GPIB) Interface Solutions

- PCI and USB bus versions
- IEEE-488.2 compatible for fast data transfer
- Windows® 7/Vista/XP/2000 drivers included
- LabVIEW® and LabWindows/CVI support
- Compatible with any standard GPIB instrument

## Ordering Information

**KPCI-488LPA IEEE-488.2 Interface Board for the PCI Bus**

**KUSB-488B IEEE-488.2 USB-to-GPIB Interface Adapter for USB Port. Built in 2m (6.6 ft) cable**



Keithley's GPIB interface solutions make it easy to add standard IEEE-488.2 bus control to any PC system. These high speed tools can control 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.

The Keithley Model KPCI-488LPA is a low-profile, GPIB interface plug-in card that is 32-bit/33MHz PCI bus compatible. Its PCI interface supports both 3.3V and 5V PCI environments, making it suitable for most desktop computers and industrial PCs, including the new low-profile desktop systems. This low-cost solution supports Windows 7/Vista/XP/2000, and its driver library is command compatible with National Instruments™ and Capital Equipment Corporation™ command functions.

The Keithley Model KUSB-488B USB-to-GPIB interface turns any computer with a USB port into a fully functional GPIB controller. The KUSB-488B's small form factor makes it perfect for use with laptop computers in portable

applications or for other applications in which the computer has no available PCI plug-in board slots. The product is USB 2.0 compliant and has an IEEE data transfer rate upwards of 1.5 MB/s through the USB port. No external power is required. KUSB-488B has a built-in 2-meter USB cable.

## Software

The included utility software simplifies the setup and use of Keithley GPIB interface solutions and saves programming time. Every solution ships with 32-bit dynamic link libraries for Application Development Environments (ADEs) running under Windows 7/Vista/XP/2000 and drivers for the most current programming languages. This adds up to full compatibility with a full array of software, including:

- Microsoft Visual Studio 6.0 (Visual Basic, Visual C++)
- Microsoft Visual Studio .NET (Visual Basic .NET, C#)
- Microsoft Visual Studio 2005 and up
- Borland Delphi, Borland C Builder 6.0
- LabVIEW Version 7.0 and up (VISA and IEEE-488.2)
- LabWindows™/CVI Version 7.0 and up (VISA and IEEE-488.2)

## Hardware Compatibility

These GPIB Interface solutions are fully compatible with all of Keithley's GPIB capable instruments. The Model 7010 adapter is required for the Model 428-PROG when used with the KUSB-488B.

	KPCI-488LPA	KUSB-488B
Bus/Form Factor	PCI	USB
Dimensions	4.7 × 2.5 in (120 × 64.5 mm)	3.2 × 2.6 × 1.1 in (81.7 × 66.1 × 27.8 mm)
Power (Current @ 5VDC)	400 mA typ., 750 mA max.	500 mA
Transfer Speed	1.5 Mbyte/s	1.5 Mbyte/s
EMC	European Directive 2004/108/EEC	European Directive 2004/108/EEC
Environmental	<b>Operating:</b> 0° to 55°C, 10% to 90% RH non-condensing <b>Storage:</b> -20° to 80°C, 5% to 90% RH non-condensing	<b>Operating:</b> 0° to 55°C, 10% to 90% RH non-condensing <b>Storage:</b> -20° to 80°C, 5% to 95% RH non-condensing

# IEEE-488 (GPIB) Accessories



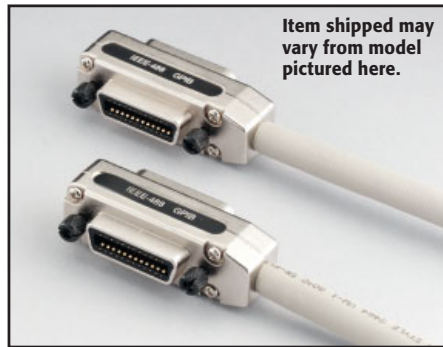
**Model 7006-\***: Single-shielded GPIB cable terminated with one feed through style and one straight on IEEE-488 connector. The mating thumb screws are metric.

**7006-1** 1m (3.3 ft)  
**7006-2** 2m (6.6 ft)



**Model 7010 Shielded IEEE-to-IEEE Adapter:** Provides additional clearance between IEEE-488 cable and rear panel, allowing easier access to switches, cables, and other connectors.

**For use with: IEEE-488 Interconnect**



Item shipped may vary from model pictured here.

**Model 7007-\***: Double-shielded premium GPIB cable. Each end is terminated with a feed through style metal housing for longest life and best performance. The mating thumb screws are metric.

**7007-05** 0.5m (1.6 ft)  
**7007-1** 1m (3.3 ft)  
**7007-2** 2m (6.6 ft)  
**7007-3** 3m (10 ft)  
**7007-4** 4m (13.1 ft)

**For use with: IEEE-488 Interconnect**



**Model 8530 Centronics Adapter:** IEEE-488 to Centronics cable adapter. Connects to Model 2001/2002 IEEE-488 port and any Centronics compatible printer for direct data output.

**Cable Length:** 2m (6.6 ft).

**For use with: 2001, 2002**