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.
IEEE-488 (GPIB) Interface Solutions

Keithley's GPIB interface solutions make it easy to add standard IEEE-488.2 bus control to any PC or PXI 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 XP/2000/Vista, and its driver library is command compatible with National Instruments® and Capital Equipment Corporation® command functions.

The Keithley Model KPXI-488 adds GPIB capability to any PXI measurement system. With the KPXI-488, you can create powerful hybrid measurement systems using Keithley's line of PXI data acquisition modules and precision DMMs, SourceMeter® instruments, switch systems, and sensitive measurement products. The KPXI-488 supports Windows XP/2000/Vista, and its driver library is also command compatible with National Instruments and Capital Equipment Corporation command functions.

The Keithley Model KUSB-488A USB-to-GPIB interface turns any computer with a USB port into a fully functional GPIB controller. The KUSB-488As small form factor makes it perfect for use with laptops 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 1.8 MB/s through the USB port. No external power is required. KUSB-488A 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 XP/2000/Vista 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#)
- 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 Models 428-PROG, 237, and 590 when used with the KUSB-488A.

<table>
<thead>
<tr>
<th>KPCI-488LPA</th>
<th>KPXI-488</th>
<th>KUSB-488A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus/Type Factor</td>
<td>PCI</td>
<td>PXI</td>
</tr>
<tr>
<td>Dimensions</td>
<td>4.7 × 2.5 in (120 × 64.5 mm)</td>
<td>5.3 × 4.2 in (134 × 107 mm)</td>
</tr>
<tr>
<td>Power (Current @ 5VDC)</td>
<td>400 mA typ., 750 mA max.</td>
<td>400 mA typ., 750 mA max.</td>
</tr>
<tr>
<td>Transfer Speed</td>
<td>1.5 MByte/s</td>
<td>1.5 MByte/s</td>
</tr>
<tr>
<td>Safety</td>
<td>EN61010-1/IEC 1010</td>
<td>EN60950</td>
</tr>
<tr>
<td>Environmental Operating</td>
<td>0° to 55°C, 10% to 95% RH non-condensing</td>
<td>0° to 55°C, 5% to 95% RH non-condensing</td>
</tr>
<tr>
<td>Storage</td>
<td>-20° to 80°C, 5% to 90% RH non-condensing</td>
<td>-20° to 80°C, 5% to 95% RH non-condensing</td>
</tr>
</tbody>
</table>

The KPCI-488LP and KPCI-488 are not compatible with the TestPoint™ Test & Measurement Development Package. Users of TestPoint must use the KUSB-488A, KPCI-488A, or KPCI-488 interfaces. Please contact Keithley Sales and Support for further details and availability of the KPCI-488(A) interfaces.

1.888.KEITHLEY (U.S. only)
www.keithley.com
IEEE-488 (GPIB) Accessories

Model 7006-6: 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)

Item shipped may vary from model pictured here.

Model 7007-6: 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)
- 7007-4 4m (13.1 ft)

For use with: IEEE-488 Interconnect

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


Cable Length: 2m (6.6 ft).

For use with: 2001, 2002

Add GPIB control to any PC