GPIB-PCMCIA-XL

▶ **32-bit PC Card IEEE-488.2 GPIB Interface**

Features

- **Unique 32-bit CardBus card - four times faster than 16bit PC Cards**
- **1KByte transfer FIFO for optimum performance**
- **GPIB cable included (2m standard, 4m Option)**
- **Windows 2000/XP, Linux**

Overview

The GPIB-PCMCIA-XL card provides an IEEE-488 GPIB interface for all portable computers with 32-bit CardBus compatible PC Card slots. The card is a Type II PCMCIA card and is compliant with the CardBus standard.

The CardBus standard provides higher levels of performance than the 16-bit PC Card standard. As a comparison, 32-bit CardBus cards are able to take advantage of internal bus speeds that can be as much as four- to six-times faster than 16-bit PC Cards. As a member of the PC Card family, CardBus PC Cards adopt the well-established PC Card form. In addition, CardBus PC Cards operate at a power-saving 3.3 volts extending battery life in most configurations.

It performs all the basic IEEE-488.1 functions such as talker, listener and system controller. The IEEE-488.2 compatible funcions make it fully compliant with the IEEE-488.2 specification. In controller applications, you can control typically up to 15 devices (instruments). If operated as a talker/listener (device) interface it does exchange data and state information with the current controller-in-charge of the GPIB bus. The GPIB-PCMCIA-XL lets Windows and Linux programs control GPIB devices.

Hardware

The GPIB-PCMCIA-XL card plugs into any 32-bit CardBus compatible Type II slot. A highly flexible cable of two (2) meters length (four (4) meters optional) connects the card and the 24 pin STD IEEE488 plug. For rugged environments a strain-relief assembly (option) provides enhanced stability.

Software

Windows The Windows software set is included with the GPIB-PCMCIA-XL. It is a WDM driver and supports Windows 2000 and Windows XP on all PC compatible platforms. Libraries and header files are included for the Visual C++, Visual Basic, MINGW and Delphi development systems. An industry standard compatible GPIB-32.DLL supports nearly all applications designed for that interface, including applications developed for LabView 6+, LabWindows, Agilent VEE, TransEra HT-Basic, Agilent Intuilink, and more.

Linux The Linux software set is included with the GPIB-PCMCIA-XL. It supports the Intel (x86) platform Linux kernel versions 2.4 and 2.6. Thus it is compatible with all Linux distributions based on that kernels, e.g. RedHat, SuSE etc. Application development using the GNU Compiler Collection (GCC Version 3) is supported. The ig++ class library provides all interfaces required to control instruments. In addition, IEEE488.2/SCPI compatible instruments can be implemented using Linux based embedded systems.

Installation

It is very easy to install the GPIB-PCMCIA-XL card using the Windows operating system. Simply put the supplied CDROM into your computers CDROM driver, install the card and apply power. Then the cards drivers are automatically located on the CD. After running setup you're ready to control GPIB instruments.

Specifications

GPIB Capabilities

IEEE 488.1 Capabilities: AH1, SH1, T/TE5, L/LE3, SR1, RL1, PP1/PP2, DC1, DT1, C1, C2, C3, C4, C5

IEEE 488.2 Capabilities: includes the capability to read the following bus lines:EOI, ATN, SRQ, REN, IFC, NRFD, NDAC, DAV

GPIB Handshake Rate: > 1Mbytes/sec

Environmental and Physical

Size (without cable)**:** PCMCIA Type II card, 100 mm H x 320 mm W x 300 mm D (3.94 in x 12.6 in x 11.81 in)

Weight (net)**:** 30 g, 2m Cable 250 g

Operating ambient temperature: 0 … 50°C

Storage temperature: -20 … 80°C

Relative humidity: 5 … 95%, noncondensing

Ordering Information

GPIB-PCMCIA-XL - Card, Cable (2m), Software CDROM
   Option -4M - Cable (4m)

SRA1 - optional Strain Relief Assembly Kit for PCMCIA card

CAB-GPHI - Spare Cable (2m) for GPIB-PCMCIA-XL
   Option -4M - Cable (4m)

On the Web

Click www.sais.fr for more information and resources.

SAIS
2, rue Henri Janin 78470 ST REMY LES CHEVREUSE
Tel : 01 30 47 45 86 - Fax : 01 30 47 93 37
info@sais.fr - www.sais.fr

XSL•FO
RenderX