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ISA-GPIB/lc

Low-Cost IEEE-488.2 Interface for ISA-Bus Computers



Features

- IEEE 488.2 Standard interface
- Complete Talker/Listener/Controller
- Uses powerful CB7210.2 chip
- Data transfer rates over 300 kilobytes/sec
- Extremely low cost
- 7 Interrupt lines, shared interrupt capability
- Transparent interrupt enabling/disabling

Includes GPIB-Library software

Functional Description

The ISA-GPIB/lc IEEE-488 interface converts any ISA bus personal computer into an instrumentation control and data acquisition system. Connect up to 14 instruments using standard IEEE-488 cables such as the C488-2M, 2 meter IEEE-488 interface cable. The PCI-GPIB is based on ComputerBoards' powerful CB7210.2 GPIB chip.

Greater than 300 MB/s Transfer Rates

The ISA-GPIB/lc transfers data over the GPIB at rates in excess of 300 kbytes per second. Full DMA and interrupt structures provide all the horsepower required to achieve these rates.

The CB7210.2 IEEE-488 controller combined with the DMA interface are able to keep pace with the transfer of information to and from instruments at rates in excess of 300 Kbytes per second. The CB7210.2 is able to communicate directly with the DMA circuitry since the GPIB bus, CB7210.2 and ISA (XT) bus are all eight bit based.

Worried that you may need more than 300 kB/s? Consider that most GPIB instruments will not transfer data faster than the ISA-GPIB/LC will, and that most applications are simple, low speed stimulus/test/log systems. The ISA-GPIB/LC is more than fast enough for most applications and saves money in cases where many test stands are being deployed.

IEEE-488.2 (GPIB) Compatibility

The ISA-GPIB/lc adheres to ANSI/IEEE Standard 488-1978. Often referred to as the IEEE-488.2 bus, GPIB bus or HP-IB bus, the GPIB (**G**eneral **P**urpose **I**nterface **B**us) is a standard for instrumentation communication and control for instruments from manufacturers the world over. The GPIB provides handshaking and interface communications over an 8 bit data bus employing 5 control and 3 handshake signals.

One switch, no jumpers

The ISA-GPIB/lc is so easy to install. Select a base address, plug in the ISA-GPIB/lc and run the installation software then start communicating. The installation software automatically configures the interrupt level and DMA level of the ISA-GPIB/lc.

Software

The ISA-GPIB/lc includes ComputerBoards' powerful GPIB-Library. The library greatly simplifies your programming effort. The PCI-GPIB is also supported by a wide variety of application software packages including SoftWIRE, LabVIEW and many others.

Windows 95/98/2000/NT/3.x and DOS Compatibility

The ISA-GPIB/lc supports virtually all popular operating systems and languages. From legacy applications in DOS to the most modern applications in the newest version of Windows, ComputerBoards is dedicated to providing the support you need.

Specifications

IEEE compatibility	IEEE-488.1 and IEEE-488.2
Transfer Rate	>300 kbyte/sec
Power	5 Vdc @ 300 mA typical
I/O Connector	IEEE-488 Standard 24 pin
Operating Temp. & Hum.	0-60 Degrees C @ 10-90%
Storage Temp. & Hum.	-40 to 100 Degrees C @ 5-90%

Ordering Guide

ISA-GPIB/lc	Low-cost GPIB interface board for ISA-bus compatible computers.
C488-2M	2 meter GPIB cable

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