# 

### GPIB-USB

#### TNT4882 ASIC

Complete IEEE 488.2 compatible Talker/Listener/Controller Controls up to 14 GPIB instruments Compact Size and lightweight No DIP switches – plug and play configuration Pull speed 12 Mbits/s USB signaling No external power required No GPIB cable required to connect to instruments

NI-488.2M Software Windows 98/95

#### Application Software

LabVIEW LabWindows/CVI ComponentWorks



### **Overview**

The compact GPIB-USB transforms any computer with a Universal Serial Bus (USB) port into a full-function, plug and play, IEEE 488.2 Controller that can control up to 14 programmable GPIB instruments. The small size and light weight of the GPIB-USB make it ideal for portable applications using a laptop computer or other applications where the computer has no available internal I/O slots. The GPIB-USB works with PC-compatible computers that have a USB port.

The GPIB-USB is easy to install and use because there are no external DIP switches and no requirement for you to restart your computer for the system to recognize your IEEE 488.2 interface. The GPIB-USB is a plug and play interface that is automatically recognized and configured by the operating system as soon as it is physically attached to the USB port on the computer. With the GPIB-USB, you can get up and running quickly so you can focus on developing your instrument control applications.

Using the TNT4882C Talker/Listener/Controller IEEE 488.2 ASIC, the GPIB-USB implements the full range of GPIB Controller functions including those required and recommended by IEEE 488.2. It also implements normal and extended Talker and Listener, serial and parallel polling, service requests, and pass/receive control functions. By drawing power directly from the USB port, the GPIB-USB requires no external power input.

# Connecting the GPIB-USB to Your Instruments

The GPIB-USB does not require a GPIB cable for connecting to your instruments. Simply attach it directly to the GPIB port on your instrument and then connect the USB cable to the USB port on your computer. If you have multiple instruments in a daisy chain or star cable configuration, attach any cables that connect to the other instruments first and then piggyback the GPIB-USB as the last connector in the stack.

### **Ordering Information**

GPIB-USB and NI-488.2 Software for Windows 98/95 ......777631-01 Includes USB cable.

# GPIB → Universal Serial Bus (USB) Controller

## **Specifications**

USB Port	
Full-speed USB signaling (12 Mbs)	
IEEE 488 Compatibility	
Compatible with IEEE 488.1 and IEEE 488.2	
External Indicators	
USB configured, USB active	
Power Requirement	
USB self-powered device	
maximum power consumption	200 mA
Physical	
Dimensions	8.6 by 6.4 by 2.3 cm
	(3.4 by 2.5 by .9 in.)
I/O connectors	
GPIB port	IEEE 488 standard 24-pin
USB port	USB standard series B receptacle

#### Operating Environment Temperature

Relative humidity ...... Storage Environment Temperature .... Relative humidity ..... 0 to 55 °C 10% to 90%, noncondensing

-20 to 70 °C 10% to 90%, noncondensing