Agilent 82357B USB/GPIB Interface Converter

Boosting performance with simplest connectivity

Features

- Fast and easy connection to GPIB instruments

- Uses standard USB and IEEE-488 interfaces

- Maximum GPIB transfer rate of 1.15 MB/s

- Parallel polling capability

Best for

- Easiest GPIB connectivity

- Notebook computer GPIB connection

Connect GPIB instruments quickly and easily to your computer's USB port

The Agilent 82357B USB/GPIB interface provides a direct connection from the USB port on your desktop and laptop computers to GPIB instruments. Once the software is loaded, your computer automatically detects the 82357B when it is connected to the USB port of the computer.

The 82357B is a plug-and-play device. It is also hot-pluggable, making it easy to connect and disconnect without having to shut down the computer. No external power supplies are necessary.

The 82357B USB/GPIB interface implements USB 1.1 (12 Mbits/s) and is compatible with USB 2.0. The 82357B USB/GPIB interface uses a thin, flexible, high-quality USB cable that is USB 2.0-compliant. The USB cable is shielded, and the connector is specified to 1,500 insertions, ensuring a durable connection and reliable data transfer.

82357B technical specifications

General requirements

Minimum system requirements	Refer to page 4 for requirements in using the Agilent IO Libraries software (included with the instrument control hardware)
Supported standards	• Supports USB 2.0 high speed • Standard USB endpoints supported • IEEE-488.1 and IEEE-488.2 compatible • SICL and VISA 2.2
Unsupported GPIB modes of operation	• Pass Control • Non-System Controller mode

General characteristics

Power	USB bus-powered device, +5 V, 500 mA (maximum), 200 mA (typical)
Maximum data rate (GPIB)	1.15 MB/s
Connectors	• Standard 24-pin IEEE-488 (GPIB) • Standard USB A
USB hubs	Self-powered hubs
Parallel polling	A single parallel poll can easily check up to eight individual devices at once, corresponding to the number of data lines on the GPIB
Cable	2.5 meters, shielded, connector rated for 1,500 insertions
LED indicators	READY, ACCESS, FAIL
Maximum instrument connection	14 instruments—daisy chain via GPIB. A maximum of 4 converters can be connected to the PC.
Configuration	Plug-and-play
Warranty	1 year
EMC and safety	• IEC 61010-1: 2001/EN 61010-1: 2001 • USA: UL61010-1: 2004 • Canada: CSA C22.2 No. 61010-1: 2004

Dimensions

Length, width, and height	105 mm (L) x 64 mm (W) x 30 mm (H) (including connectors)
Weight	215 grams

Environmental specifications

Operating environment	0 °C to 55 °C
Operating humidity	Up to 90% at 40 °C non-condensing
Storage environment	–40 °C to 70 °C
Storage humidity	Up to 90% at 65 °C non-condensing

Ordering information

Includes	Agilent IO Libraries Suite and VISA/SICL programming manuals on CD-ROM
Accessories	GPIB cables/adapter (see page 11)

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