KEYSIGHT TECHNOLOGIES (AGILENT HP)

82357B

The Keysight Technologies 82357B is a high-performance USB/GPIB interface that provides a direct connection from a USB port on a laptop or desktop PC to GPIB instruments. Utilizing USB 2.0 high-speed technology, it enables seamless, plug-and-play setup and high data transfer rates for instrument control.

SPECIFICATIONS

General

Interfaces	USB 2.0 (High Speed / Full Speed), GPIB (IEEE-488)
Display	LED status indicators (READY, ACCESS, FAIL)

Physical

Power Supply	USB bus-powered, 5 VDC, 500 mA (maximum), 200 mA (typical)
Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	64 mm × 30 mm × 105 mm mm
Weight	0.215 kg

Host/Mainframe Connection

Host Interface Standard	USB 2.0 High Speed
Host Connector Type	USB Type-A (built-in cable)
Host Cable Length	2.5 m

Target/Instrument Connection

Target Interface Standard	IEEE-488.1, IEEE-488.2
Target Connector Type	24-pin GPIB (IEEE-488) receptacle
Maximum Number of Target Devices	Up to 14 instruments (via daisy-chaining)

Signal & Performance Characteristics

Maximum Data Transfer Rate	1.15 MB/s

Data Transfer & Protocol Specifications

Supported Protocols	IEEE-488.1, IEEE-488.2
Addressing Modes	0 to 30 primary addresses

Compatibility & Software Integration

Software Drivers Provided	Keysight IO Libraries Suite (VISA, SICL, VISA COM)

Electrical & Power Specifications

Power Supply Source	USB Host Port (no external power supply required)
Current Consumption (Active)	500 mA (maximum)
Current Consumption (Typical)	200 mA

Environmental & Safety Standards

Storage Temperature Range	-40 to +70 °C
Maximum Operating Humidity	Up to 90% RH at 40 °C (non-condensing)
Maximum Storage Humidity	Up to 90% RH at 65 °C (non-condensing)

User Interface

LED Indicators	READY, ACCESS, FAIL

Environmental

Operating Altitude	Up to 2,000 m (6,561 ft)
Storage Altitude	Up to 4,600 m (15,091 ft)
Pollution Degree	Pollution Degree 2

Power

USB Suspend Current	2.5 mA (maximum)

Software Support

Supported APIs	VISA, SICL, NI-488.2 compatible

Compliance

EMC Compliance	IEC 61326-1, EN 61326-1, Canada: ICES/NMB-001, Australia/ New Zealand: AS/NZS CISPR 11
Safety Compliance	IEC 61010-1, EN 61010-1, CSA C22.2 No. 61010-1

Standards & Compliance

GPIB Specification Compliance	IEEE 488.1 and IEEE 488.2

USB Connectivity

USB Version Compatibility	USB 2.0 (USB 1.1 backward compatible)
USB Speed Mode	High Speed (480 Mbps) / Full Speed (12 Mbps)

System Compatibility

Supported Operating Systems	Windows 10 (32-bit and 64-bit), Windows 8 (32-bit and 64-bit), Windows 7 (32-bit and 64-bit), Windows Vista, Windows XP

Software Compatibility

VISA Compatibility	Keysight VISA, NI-VISA

TECHNOLOGY

USB-to-GPIB Bridge

APPLICATIONS

Instrument control and data acquisition

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.