

Agilent E5810A LAN/GPIB Gateway

Features

- Remote access and control of GPIB instruments via the LAN
- Easy setup and use via digital display and Web browser

Best for

- Connection to remote GPIB and RS-232 instrumentation
- Shared test systems

Remote access and collaboration with GPIB instruments via your LAN

The E5810A can use DHCP, if available, to automatically configure necessary network parameters, including its IP address. The gateway can be controlled from multiple locations and by multiple users via your LAN, so it is easy to share control of instruments from locations worldwide.

For easy remote access enter the IP address from the digital display as the URL in your Web browser and gain access to connected GPIB and RS-232 instruments. Then use your browser to send instrument commands interactively and quickly see your measurement results. Use the digital display and LEDs to check the IP address and troubleshoot locally.

For programming capability you have access with the latest version of IO Libraries Suite, version 14.2, to program in all standard development environments.

System use

For system environments, the E5810A gateway can be rack mounted. The rack mount kit (Option 100) allows two devices to be placed side-by-side in one rack width. With its built-in power supply, there are no additional power modules to mount.

For additional information and graphic see page 8.



Take advantage of LAN technology for your GPIB instruments and test systems

E5810A technical specifications

General requirements

Minimum system requirements (client computers)	Available 10BASE-T/100BASE-TX LAN port
Operating system	Windows 98(SE)/Me (note 98 supported with version 14.0 only)/2000/XP/Vista
Supported Web browsers	Internet Explorer 4.0 or higher Netscape Navigator 4.7 and higher
Software required	Web browser or for programmatic control— Agilent IO Libraries Suite (included); see requirements on page 1
Supported standards	IEEE 488.1 and IEEE 488.2 compatible 10BASE-T/100BASE-TX networks VXI-11 protocol EIA-232

General characteristics

Power supply	100-240 V \pm 10%
Power consumption	(7 watts) 25 VA peak
Power line frequency	47 to 63 Hz
Connectors	Std 24-pin GPIB (IEEE-488), RS-232 (9-pin), LAN RJ-45
Maximum data rates	More than 900 KB/s—GPIB port 115 Kb/s—RS-232 port
RS-232 baud rate	300, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 b/s
RS-232 Flow control	None, RTS/CTS, XON/XOFF, DTR/DSR
RS-232 Parity	None, Odd, Even, Space, Mark
RS-232 bits	5, 6, 7, 8
RS-232 Stop bits	1, 2
RS-232 SRQ interrupts	on RI, DSR, DCD, CTS
Max instrument connections	14 instruments—daisy chain via GPIB 1 RS-232 device Up to 16 simultaneous I/O connections
Indicators	LEDs for Power, Activity, Fault
EMC and safety *	IEC 61326-1 Group 1, Class A IEC 61010-1
Warranty	1 year
Network protocols	See the E5810A User's Manual for supported network protocols and functions

Dimensions

Length, width, and height	211 mm wide x 230 mm deep x 41 mm high (1U height, 1/2 rack)
Weight	1.6 kg

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

* Additional detail and information in the Declaration of Conformity