

Agilent I/O Hardware for PC-to-Instrument Connection

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- Choose the best way to connect your PC to GPIB and RS-232 instruments
- Take advantage of PC-standard interfaces (USB, LAN, PCI)
- Protect your investment with industry-standard I/O software

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Easily connect your PC to GPIB and RS-232 instruments

Now you can connect your PC and test instruments more easily than ever. The Agilent I/O hardware product family is designed to offer you a choice of interfaces and to simplify the connection.

Agilent is a leader in offering Ethernet/local area network (LAN) and universal serial bus (USB) interfaces in its instruments. The I/O products featured in this data sheet will help you connect your current instruments that have GPIB or RS-232 interfaces to your PC with ease.

Agilent I/O hardware family benefits:

- Easy connection to GPIB and RS-232 instruments — Agilent I/O hardware products offer simple "plug and go" setup and configuration
- Use PC-standard interfaces —
 Connect via your computer PCI
 slot or use the built-in USB or
 LAN ports on your PC to connect
 to your instruments.
- Choice of interfaces (GPIB, RS-232, USB, LAN, PCI) Agilent offers you a selection of products to meet your I/O needs. We work where you do!
- Software compatibility with any standard T&M software application The included industry-standard VISA I/O libraries make it easy for you to use your existing software programs and let you mix and match test instruments and software from different vendors in a single system.

Agilent connectivity software

Agilent connectivity software helps you establish a connection in less than 15 minutes.

Agilent IO Libraries Suite eliminates the hours of effort it takes to connect and configure PC-controlled test systems. This connectivity software ships with each Agilent I/O product and over 150 Agilent test and measurement instruments. Connecting your instruments to a PC is as easy as connecting a PC to a printer — even if you use multiple instrument vendors.

Now enhanced version 14.2 with expanded compatibility with other vendors IO software. You can now use any programming API with any standard T&M software development environment. Simply install Agilent's IO Libraries Suite on your PC then cable the interfaces and instruments to your PC. The IO Libraries Connection Expert utility will find the interfaces and instruments connected to your computer and configure them properly.

Agilent IO Libraries Suite version 14.2 summary of requirements

- Microsoft® Windows® 98(SE)/ME (note: only supported with version 14.0)/2000 SP4/XP SP1/Vista (note: only supported with version 15.0 or greater) and Microsoft Internet Explorer 5.01 or greater
- 450 MHz Intel Pentium® processor and 800x600 display with 256 colors
- 128 megabytes RAM and 225 MB total hard disk space
- Supported APIs include Agilent or NI VISA, SICL, VISA-COM and NI-488.2

If you already own an Agilent I/O product or instrument, you can download the latest version of Agilent IO Libraries Suite for free.

See the following URL for more information.
Go to www.agilent.com/find/iosuite



Agilent 82357B USB/GPIB Interface

Features

- Fast and easy connection to GPIB instruments
- Uses standard USB and IEEE-488 interfaces
- Maximum GPIB transfer rate of more than 1.15 MB/s
- Use industry standard software

Best for

- · Easiest GPIB connectivity
- Notebook computer GPIB connections

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 computer USB port.

With the 82357B USB/GPIB interface and its convenient plug-and-play feature, you just plug and go. 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 2.0 (480 Mbits/s) and is backward compatible with USB 1.1. 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	Windows 2000/XP Professional/Vista 450 MHz Pentium II (800 MHz is recommended) 128 MB RAM (256 MB or greater is recommended) 400 MB free disk space USB port (OS and Microsoft .NET Framework may require more resources)	
Supported standards	Support USB 2.0 high speed and full 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 (max), 200 mA (typ)	
GPIB transfer rate	1.15 MB/s or better	
Connectors	• Standard 24-pin IEEE-488 • 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 1500 insertions	
LED Indicators	READY, ACCESS, FAIL	
Maximum connections	Maximum 4 converters can be connected to the PC	
Instrument connections	14 instruments—daisy chain via GPIB	
Configuration	Plug-and-play	
Warranty	1 year	
EMC and Safety *	• IEC 61010-1:2001/EN 61010-1:2001 • Canada: CSA C22.2 No. 61010-1:2004 • USA: UL61010-1: 2004	
Dimensions		
Length, width, and height	105 mm (L) x 64 mm (W) x 30 mm (H) (includes connectors)	
Weight	215 grams	
Environmental Specifications		
Operating environment	0 °C to 55 °C	
Storage environment	−40 °C to +70 °C	
Operating humidity	Up to 90 % at 40 °C non-condensing	
Storage humidity	Up to 90 % at 65 °C non-condensing	

^{*} Additional details and information in the Declaration of Conformity

Agilent 82350B High-Performance PCI GPIB Interface for Windows

Features

- PCI IEEE-488 interface for PCs
- Transfer rates up to 900 KB/s
- Dual processor support on Windows 2000/XP/Vista

Best for

• Maximum GPIB throughput for all configurations

High performance for manufacturing test applications

The 82350B is Agilent's highestperformance GPIB interface. With a direct PCI computer connection, transaction overhead is minimized for the best overall performance.

The 82350B card de-couples GPIB transfers from PCI bus transfers. Buffering provides I/O and system performance that is superior to direct memory access (DMA). The hardware is software configurable and compatible with the Plug-and-Play standard for easy hardware installation. The GPIB interface card plugs into a 5 volt PCI slot in the backplane of your PC.

For programming capability you have access with the latest version of IO Libraries suite, version 14.2, to program in all standard development environments. Agilent's IO Libraries Suite 14.2 is easy to use and works with virtually any vendor's instrument or T&M programming software application and includes automatic configuration for Agilent or NI VISA, NI-488.2, VISA COM or T&M Toolkit Direct IO. Even if you use NI IO software Agilent will configure automatically so as a user you do not have to be concerned with the behind-thescenes details.



This traditional GPIB connection still offers the highest throughput

82350B technical specifications

Windows 98(SE)/Me (note 98 supported with version 14.0 only)/2000/XP/Vista
Agilent IO Libraries Suite (included); see requirements on page 1
5-V PCI slot, 32 bits
PCI rev 2.2 IEEE 488.1 and IEEE 488.2 compatible
Backplane +5 V PCI
Standard 24-pin GPIB (IEEE-488) +5V PCI
More than 900 KB/s
14 instruments—daisy chain via GPIB
Built-in
Plug-and-Play
IEC 61326-1 Group 1, Class A IEC 61010-1
1 year
122 mm (L) x 122 mm (W) x 22 mm (H) (a full-height PCI card)
0.091 kg
0°C to 55°C
Up to 90% at 40°C non-condensing
-40°C to +70°C
Up to 90% at 65°C non-condensing

^{*} Additional detail and information in the Declaration of Conformity

Agilent 82351A PCIe GPIB Interface Card

Features

- Compact half-height size (68.9 mm)
- High transfer rate of 1.4 MB/s
- High flexibility via up-plugging (to x4 or x8 PCIe slots)
- 3.3 V signal level for lower power consumption
- Compatibility with industry standard PCIe rev 1.0a and IEEE-488
- Interface to 14 GPIB instruments (max)

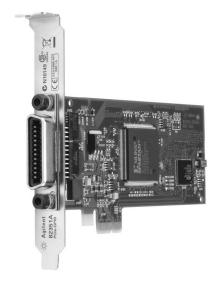
Best for

- Bandwidth-intensive PC applications
- Adding GPIB connection for PCIe-based PCs or workstations

High transfer rate for demanding test applications

Agilent 82351A PCIe-GPIB interface card is designed for integration into next generation PCs or workstations. It offers fast data transmission for various demanding test applications that require data to be transferred to memory fast enough without any lost or overwritten.

PCIe (PCI Express) is an evolutionary version of PCI that offers a higher transfer rate across a low number of wires. It is also backward-compatible with PCI software, so you don't need to perform any code re-configuration. PCIe's powerful bus architecture allows bidirectional data transmission, and the implementation of a new class of test applications.



New standard for high speed internal devices

82351A technical specifications

<u> </u>		
General requirements		
Minimum system requirements	Windows 2000/XP/Vista	
Software required	Agilent IO Libraries Suite 14.2 and above; see requirements on page 1	
PCI bus slot	3.3 V PCle slot, 32 bits	
Supported standards	PCIe rev. 1.0a IEEE 488.1 and IEEE 488.2 compatible	
General characteristics		
Power	Backplane +3.3 V PCIe	
Connectors	Standard 24-pin (IEEE-488) +1.5 V PCle	
Maximum data rate	1.4 MB/s or better	
Maximum instrument connection	14 instruments—daisy chain via GPIB	
Buffering	Built-in	
Configuration	Plug-and-Play	
EMC and safety *	IEC 61010-1:2001 / EN61010-1:2001 Canada: CSA C22.2 No. 61010-1:2004 IEC 61326:2002 / EN61326:1997+A1:1998+A2:2001+A3:2003 Pollution Degree 2 This product is rated for indoor use only	
Warranty	1 year	
Dimensions		
Width, depth and height	158.0 mm (W) x 120.8 mm (D) x 21.6 mm (H)	
Weight	0.082 kg	
Environmental specifications		
Operating environment	−5 °C to 60 °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

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 ± 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

Agilent E5805A USB/4-Port RS232 Interface

Features

- Easy connection from standard USB port on your PC to up to four RS-232 instruments or devices
- Fully compatible with Windows COM driver and industry-standard VISA I/O software

Best for

- Easy connection to RS-232 devices
- Notebook computer RS-232 connection

Add four serial ports in minutes

The Agilent E5805A USB/4-port RS232 interface provides a direct connection from the USB port on our notebook or desktop PC to up to four RS-232 instruments or devices. There are no switches to set, no PC cards to install, and no external power supplies are required. Simply install the driver and plug in the E5805A USB 4-port RS232 interface to add four RS-232 ports to your computer.

Since the E5805A is a standard Plug-and-Play device, your computer automatically detects and configures it when it is connected to your computer USB port. You can interface up to four devices, with baud rates up to 230 Kb/s per serial port. The E5805A provides four DB9 serial connectors and ships with a 1.8-meter USB cable.



Turn your USB port into 4 additional RS-232 ports

E5805A technical specifications

· ·		
General requirements		
Minimum system requirements	Windows 98(SE)/Me (note 98 supported with version 14.0 only)/2000/XP A USB port	
Software required	E5805A driver (included)	
Software recommended	Agilent IO Libraries Suite (included); see system requirements on page 1	
Supported standards	USB 1.1 (fully compatible with USB 2.0) EIA-232	
General characteristics		
Power	USB bus-powered device, +5 V, 500 mA (max), 200 mA (typ)	
Support for USB hubs	Self-powered hubs	
Connectors	Standard USB A, RS-232 (9-pin) on each port	
Cable	1.8 meter USB, USB A (host side) to USB B (device side)	
Maximum data rates	230 Kb/s per port	
RS-232 baud rates	300, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400 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 (using IO libraries)	
Maximum instrument connections	4 RS-232 instruments/devices	
Configuration	Plug-and-Play	
Indicators	Tri-state LED displays device status and COM port activity	
EMC and safety *	CISPR 22 Class B CISPR 24 IEC 60950	
Warranty	1 year	
Dimensions		
Length, width, and height	111 mm (L) x 183 mm (W) x 26 mm (H)	
Weight	0.311 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

Agilent E5813A Networked 5-Port USB Hub

Features

- Interface a variety of GPIB, RS-232, and USB devices to complete your test system
- Extend USB devices beyond five meters
- USB ports appear to be locally attached and are locked to one computer

Best for

• Remote access to USB ports—devices or instruments

Connect remote USB, GPIB or RS-232 instruments or devices via a standard LAN

The Agilent E5813A networked 5port USB hub uses LAN technology to overcome the 5-meter distance limitation for USB cabling, so you can place USB devices anywhere on a LAN network. With access to remote devices, you can collect data, perform measurements, or monitor the progress of your tests. Using the included IO Libraries Suite, you can connect an Agilent 82357B USB/GPIB interface to one of the USB ports for access to GPIB devices. You also can connect an E5805A USB/4-port RS-232 interface for access to RS-232 devices (see figure on page 8).

To prevent access conflicts, only one computer at a time can access the E5813A. The included software lets you lock the E5813A to your computer. Once you unlock the connection, another user can then connect from a different computer.

For information on choosing between E5810A and E5813A see page 8.



Utilize LAN to access the remote USB, GPIB or RS-232 instruments or devices

E5813A technical specifications

General requirements	
Minimum system requirements	Windows 2000/XP Available USB 1.1 or 2.0 port
Software required	E5813A driver (included)
Software recommended	Agilent IO Libraries Suite (included);
	see system requirements on page 1
Supported standards	10BASE-T/100BASE-TX networks USB 1.1 (fully compatible with USB 2.0)
General characteristics	
Power supply	External switching AC adapter
Input power consumption	120/230 volts AC, 0.7amps
Power line frequency	50 to 60 Hz
Output	5 volts DC, 3 amps max
USB device power available	500 mA per device
Connectors	LAN RJ-45 Standard USB A on each of 5 ports
Maximum data rates	12 Mbps from each port
Maximum instrument connections	5 USB instruments or devices
Configuration	Remote LAN configuration utility
Indicators	LEDs for system and device status
EMC and safety *	CISPR 22 Class B CISPR 24 IEC 60950 ITE equipment intended only for use with ISM equipment
Warranty	1 year
Network and device recommend	lations
IP addresses	One IP address per unit
E5813A Device Sharing	Locked to one computer at a time. One computer must release the E5813A before another computer can use it.
Network utilization	Maximum network utilization below 50%
Compatibility	Compatible with bulk or interrupt-type USB devices; isochronous devices are not supported.
Dimensions	
Length, width, and height	Device: 112 mm (L) x 182 mm (W) x 26 mm (H) Power adapter: 110 mm (L) x 60 mm (W) x 35 mm (H)
Weight	Device: 0.284 kg Power adapter: 0.25 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 Do	eclaration of Conformity

^{*} Additional detail and information in the Declaration of Conformity

Cables

Agilent also offers a variety of cables that provide easy and reliable connections. Agilent cables are engineered for exceptional reliability and durability, even under the harshest conditions.



Cable	Length
10833D GPIB cable	0.5 meter
10833A GPIB cable	1 meter
10833B GPIB cable	2 meter
10833C GPIB cable	4 meter
10833F GPIB cable	6 meter
10833G GPIB cable	8 meter

Adapters

10834A GPIB-to-GPIB adapter

The 10834A GPIB-to-GPIB adapter can help when limited rear-panel space and other design considerations make cabling difficult. The 10834A adapter extends the first cable 2.3 cm away from the rear panel to provide clearance for other connectors, switches, and cables.

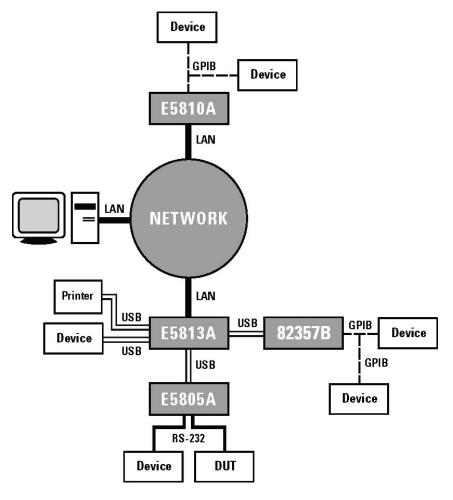
Choosing a remote connection

Guidelines for selecting between the E5810A and E5813A for a remote connection:

- Use the E5810A LAN/GPIB gateway when you are connecting only to GPIB instruments or a mix of GPIB instruments and one RS-232 instrument.
- Use the E5810A when you need to share your instruments with more than one user at a time.

 Use the E5813A networked 5-port USB hub when you have a mix of devices (for example, when you need a remote USB printer and multiple RS-232 devices, or have a mix of GPIB, USB, and RS-232 devices).

You will obtain the best performance when you do the fewest format conversions. For example using the E5810A (LAN to GPIB) will generally be faster than 82357B and an E5813A (LAN to USB to GPIB).



www.agilent.com

Ordering information

Product number	Product description
82357B	USB/GPIB interface, includes Agilent IO Libraries Suite and VISA/SICL programming manuals on CD-ROM.
E5810A	LAN/GPIB gateway, includes Agilent IO Libraries Suite and VISA/SICL programming manuals on CD-ROM.
	Rack mount kit for 1 or 2 E5810A(s) Option 100
82350B	High performance PCI GPIB interface, includes Agilent IO Libraries Suite and VISA/SICL programming manuals on CD-ROM
82351A	High performance PCIe GPIB Interface Card, includes Agilent IO Libraries Suite and VISA/SICL programming manuals on CD-ROM
	Additional manual set (Option 0B1); Japanese User's Guide (Option ABJ)
E5805A	USB/4-port RS232 interface includes USB cable, Agilent IO Libraries Suite and VISA/SICL programming manuals on CD-ROM
E5813A	Networked 5-port USB hub— includes power adapter, Agilent IO Libraries Suite and VISA/SICL programming manuals on CD-ROM
10833D	0.5-meter GPIB cable
10833A	1-meter GPIB cable
10833B	2-meter GPIB cable
10833C	4-meter GPIB cable
10833F	6-meter GPIB cable
10833G	8 meter GPIB cable
10834A	GPIB-to-GPIB adapter

More Information

- [1] PCIe-GPIB Interface Card Product Information: www.agilent.com/find/82351A
- [2] Agilent I/O Product Family: www.agilent.com/find/io
- [3] Agilent I/O Product Promotion & Special Deal: www.agilent.com/find/iopromo

Related Agilent literature

(for other application-related topics and publications, visit

www.agilent.com/find/appcentral)

- · Agilent E2094N IO Libraries Suite, Data sheet pub no. 5989-1439EN
- Modern Connectivity—Using USB and LAN I/O Converters, Application note 1475-1 pub no. 5989-0123EN
- · Simplified PC Connections for GPIB Instruments, Application note 1409-1, pub no. 5988-5897EN
- Using LAN in Test Systems: The Basics, Application note 1465-9, pub no. 5989-1412EN

- · Using LAN in Test Systems: Network Configuration, Application note 1465-10, pub no. 5989-1413EN
- · Using USB in the Test and Measurement Environment, Application note 1465-12, pub no. 5989-1417EN
- · Computer I/O Considerations, Application note 1465-2, pub no. 5988-9818EN

Learn more at

http://www.agilent.com/find/io-ds

Join the Agilent Developer Network to get updated I/O software, instrument drivers, code examples, white papers, and more! Registration is easy and free at www.agilent.com/find/adn.

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Our Promise

Our Promise means your Agilent test and measurement equipment will meet its advertised performance and functionality. When you are choosing new equipment, we will help you with product information, including realistic performance specifications and practical recommendations from experienced test engineers. When you receive your new Agilent equipment, we can help verify that it works properly, and help with initial product operation.

Your Advantage

Your Advantage means that Agilent offers a wide range of additional expert test and measurement services, which you can purchase according to your unique technical and business needs. Solve problems efficiently and gain a competitive edge by contracting with us for calibration, extra-cost upgrades, out-of-warranty repairs, and onsite education and training, as well as design, system integration, project management, and other professional engineering services. Experienced Agilent engineers and technicians worldwide can help you maximize your productivity, optimize the return on investment of your Agilent instruments and systems, and obtain dependable measurement accuracy for the life of those products.



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Agilent Open simplifies the process of connecting and programming test systems to help engineers design, validate and manufacture electronic products. Agilent offers open connectivity for a broad range of systemready instruments, open industry software, PC-standard I/O and global support, which are combined to more easily integrate test system development.

For more assistance with your test & measurement needs or to find your local Agilent office go to

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