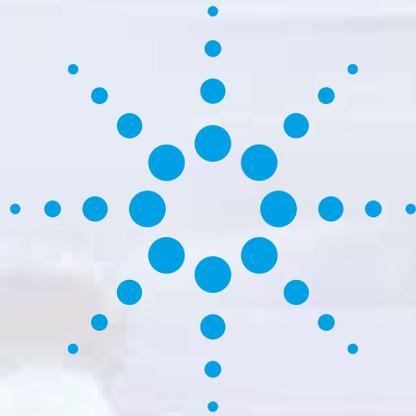


Agilent E2960B Series for PCI Express® 1.0 and 2.0

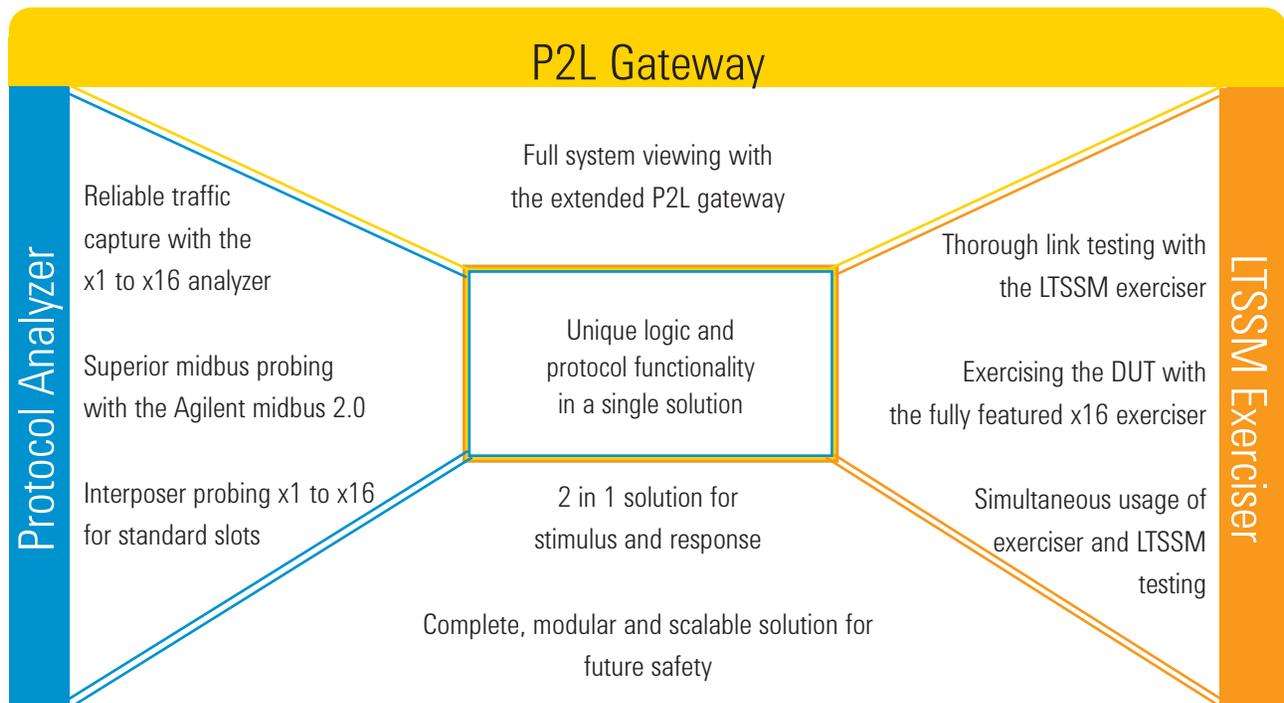
Fastest Time to Insight



Agilent E2960B Series for PCI Express[®] 1.0 and 2.0

Providing customers with the fastest time to insight with an integrated suite of analyzer and exerciser tools. With data capture users can trust and the non-intrusive probing, customers can spend their time analyzing their design and bringing their product to market quickly.

Features of the Agilent E2960B Series for PCIe[™] 2.0

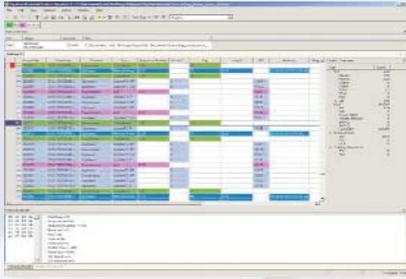


The Protocol Test Series encompasses the industry's most complete and integrated x1 through x16 protocol analyzer and LTSSM (Link Training and Status State Machine) exerciser for PCI Express 1.0 and 2.0 with superior probing:

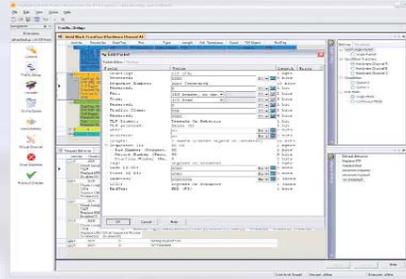
- The non-intrusive analyzer provides authentic system view with genuine and unaltered signal characteristics.
- The integrated exerciser and LTSSM tester for effective testing from the link layer up to the transaction layer isolates failures for expedited troubleshooting.
- The Protocol to Logic gateway (P2L gateway) for correlation to the Agilent Logic Analyzers, enables broad visibility into all parts of the system.

Platform Continuity

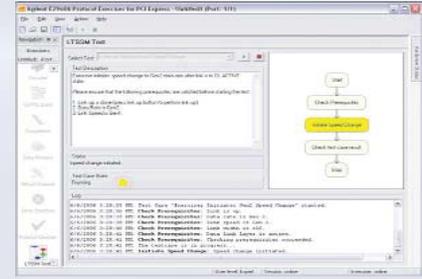
- The Agilent E2960B series is based on the existing N2X platform, which means that the Agilent chassis and probing solutions (utilizing a cable to connect) can be reused for PCIe[™] 2.0.
- The complete software including the GUI is also the same for both series of products, so customers can protect their investment and leverage their existing know-how to start PCIe 2.0 testing immediately.
- The APIs are backward compatible so that previously developed scripts can be reused.



Protocol Analyzer: Memory reads and completions



Protocol Exerciser: Traffic set-up



LTSSM Exerciser: Link training set-up

■ **Unique Logic and Protocol Functionality in a Single Solution**

- A fast and effective way to understand the data from the physical layer through to the transaction layer. This means:
 - Instantaneous lane status information, both on the I/O module and in the GUI using the per lane LEDs.
 - Per-lane view even prior to channel bonding completion – including 8b, 10b or K/D symbols.
 - 2 “Trigger-down-the-lane” patterns on selected lanes.
 - Manual and automatic speed settings.

■ **Reliable Traffic Capture and Analysis**

- Using the x1 to x16 analyzer it is simple to understand the system traffic:
- 2.5 GT/s and 5 GT/s PCI Express traffic is reliably captured.
 - Advanced triggering capabilities that reduce the time needed to detect even difficult to find errors.
 - Probing using the Agilent Midbus 2.0 probe or the Solid Slot Interposer.
 - Fast and easy to understand the data through context sensitive column analysis, easy flow views and the transaction viewer.

■ **Superior Probing Choices**

- Enables insight into the system without influencing or changing the signals. This is enabled through non-intrusive passive and low capacitive loading, which does not effect the characteristics of the signal. The Agilent Midbus 2.0 probing solution is available to support various layout requirements and needs.
- Probing standard PCIe systems with the Agilent Solid Slot Interposer which is available in all link widths.

■ **Full System Viewing**

- Utilizing the extended P2L gateway enables connecting to the Agilent Logic Analyzer to do time correlated cross bus measurements, cross triggering and flag usage.
- Both Logic Analyzer and Protocol Analyzer instruments can be operated from a single PC.

■ **Exercising the DUT (Device under Test)**

- Utilizing the fully featured x16 exerciser the DUT can be driven to its limits through new traffic set-up in the GUI, error insertion and end point or root complex emulation. It can of course also be used for add-in card testing.

■ **Thorough Link Testing**

- Using the x1 through x16 LTSSM exerciser training sequences and ordered sets can be generated across all the lane widths, enabling effective testing of the link negotiation and supporting dynamic lane width changes. The LTSSM testing capability can be used simultaneously with the fully featured exerciser.

■ **Complete, modular and scalable 2 in 1 Solution for Stimulus and Response**

- A single and complete solution for stimulus (analyzer) and response (exerciser) enabling a fully integrated overview, a detailed observation of the DUT’s behavior and a consistent look and feel across both exerciser and analyzer.
- The modular approach allows the E2960B to scale to current needs and grow with future upgrades.



The Agilent Protocol Analyzer for PCIe 2.0



The Agilent Midbus 2.0 series of probes using soft touch technology



The Agilent LTSSM Exerciser for PCIe 2.0



The Agilent Protocol Analyzer and Logic Analyzer with the P2L gateway cable

www.agilent.com/find/pcie2

Related Literature

The Agilent Test Portfolio for PCI Express 2.0
Agilent Technologies E2960B Series for PCI Express 2.0

Brochure 5989-5594EN
Data Sheet 5989-5660EN

Agilent Technologies' Test and Measurement Support, Services, and Assistance

Agilent Technologies aims to maximize the value you receive, while minimizing your risk and problems. We strive to ensure that you get the test and measurement capabilities you paid for and obtain the support you need. Our extensive support resources and services can help you choose the right Agilent products for your applications and apply them successfully.

Every instrument and system we sell has a global warranty. Two concepts underlie Agilent's overall support policy: "Our Promise" and "Your Advantage."

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.

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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.

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(fax) (080) 769 0900

Latin America:

Mexico: (tel) 01800 5064 800

Brazil: (tel) 11 4197 3600

Taiwan:

(tel) 0800 047 866

(fax) 0800 286 331

Other Asia Pacific Countries:

(tel) (65) 6375 8100

(fax) (65) 6755 0042

Email: tm_asia@agilent.com

Product specifications and descriptions in this document subject to change without notice.

+1 (800) 829-4444 phone

+1 (800) 829-4433 fax

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