



RSoft Design Group Reduces Test Times, Decreases Development Costs Of Optical Communication Systems

New Interface Enables Simulation of Optical Links from Time Resolved Chirp Measurements

January 29, 2003 — San Jose, CA —RSoft Design Group, Inc.

(<http://www.rsoftdesign.com>) announced that Agilent's 86146B optical spectrum analyzer (OSA) combined with RSoft's *LinkSIM*[™] optical communication system simulation software reduces system test times by orders of magnitude, significantly decreasing development and test costs. The interface with *LinkSIM* enables the flexibility to perform link simulations and predict link performance given measured waveforms and chirp along with specific link configuration and parameters.

LinkSIM interfaces with the Agilent 86146B OSA to accurately predict optical link performance from time-resolved chip (TRC) measurements. After performing the TRC measurements, the measurement data is imported into *LinkSIM* where the optical link topology is specified with an easy-to-use graphical user interface and the component parameters are configured according to the system under study. A simulation determines the system performance resulting from the measured TRC data. Various simulation results can be produced including signal waveforms, eye diagrams, frequency spectra, BER curves, dispersion penalties, and more.

Using *LinkSIM*, the effect of laser chirp (as measured by Agilent's TRC solution) on a wide variety of system performance metrics — such as the effect on the performance of a long-haul dense wavelength division multiplexed (DWDM) system with EDFA and Raman optical amplification and dispersion compensation — can be studied across an unlimited range of system designs.

LinkSIM provides a full suite of component models and analytical capabilities for accurate and efficient simulation of optical communication systems. Whether studying systems with chirp, dispersion, nonlinearities, jitter, skew, crosstalk, loss, statistical variations, or noise, *LinkSIM* is optimized to save time and money in producing the most accurate results.

Visit RSoft Design Group at Photonics West 2003 in booth #518.

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About RSoft Design Group, Inc.

Offering a comprehensive suite of design and business analysis software solutions to the telecommunications and photonics industries, RSoft Design Group, Inc. is the only

company that provides a full range of simulation and planning software and services across the entire component- to network-level hierarchy. The company's award-winning products are used by researchers, manufacturers, systems integrators, and service providers to address design challenges ranging from the physics of component design to the business implications of planning wired and wireless networks. RSoft Design Group is a privately held corporation with software development offices in New York, New Jersey, Illinois, and Silicon Valley, and global marketing operations in the Pacific Rim, Europe, and the Middle East. For more information, visit www.rsoftdesign.com.

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