

New BERTScope™ S Eye Openers

De-Emphasis Accessories for PCI-Express, SATA, and FB-DIMM

MENLO PARK, California, January 30, 2007 – SyntheSys Research, Inc. a developer and manufacturer of high speed signal integrity test and measurement solutions for the computer, storage, and communications industries, introduces BERTScope Eye Openers for the convenient and easy-to-use conversion of conventional non-return to zero (NRZ) data to de-emphasized data signals, which are used by a growing number of high speed serial bus standards. Conventional NRZ data is modified by a passive network to produce data in which bits, following the initial one or zero bit in a sequence with multiple bits of the same value, are attenuated (de-emphasized) by a prescribed amount (for instance, 3.5 dB for PCI-Express at 2.5 Gb/s). De-emphasis, which is often used in test and validation vocabulary, and pre-emphasis, which is commonly used in IC design and simulation, result in the same waveform shape. Instead of considering successive bits of the same value to be attenuated with respect to the first bit, pre-emphasis considers the first bit in a series of ones or zeros as sent with larger drive level than those following. De- or Pre-emphasized NRZ signals are used by the latest high-speed serial bus standards to enable longer transmission distances between devices by reducing the effect of intersymbol interference (ISI) due to frequency-dependent loss in printed circuit board channels.

BERTScope S Eye Openers

- Directly attach to BSA pattern generator differential outputs
- Combine with BERTScope Differential ISI Board for easy-to-implement receiver compliance testing
- Models available for PCI-Express, SATA, and FB-DIMM
- Select from a range of de-emphasis values
- Use with existing pattern generators and pulse generators to economically address test requirements of the latest standards

About SyntheSys Research, Inc.

BERTScope™ is a trademark of SyntheSys Research, Inc., a privately held California corporation. Founded in 1989, its mission is to develop advanced test instruments for identifying and locating the source of errors in high-speed digital bit streams. BERTScope pairs with BERTScope CR or CRJ to offer the vision of a scope, the confidence of a BERT, and clock recovery you can count on. More information is available at www.bertscope.com.

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