

## **SyntheSys Research Announcing New Test Solutions at OFC**

### *Optical Stressed Eye for SFP+, Optical Jitter Measurement*

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**MENLO PARK, CA, March 27, 2007** – SyntheSys Research, Inc. a developer and manufacturer of high-speed signal integrity test and measurement solutions for the computer, storage, and communications industries, announces its latest innovations at OFC in Anaheim, CA, March 27 – 29, 2007, Booth #3309.

#### **Optical Stressed Eye Receiver and Transmitter Testing for SFP+ and XFP**

The BERTScope S with JDSU OPTX 10 Reference Generator performs optical stressed eye receiver tolerance and compliance testing. The test set is configurable for multiple data rates and provides both electrical and optical stressed eye testing for SFP+, XFP/XFI, 2x, 4x, and 10x Fibre Channel, and 10 GbE at 850, 1310, or 1550 nm wavelengths. This solution gives design and test engineers deep insight into device performance with eye diagram, jitter peak, compliance contour, and BER contour analyses. The BERTScope approach to transmitter mask testing is both precise and extremely time efficient. In contrast to traditional sampling scopes whose test time is driven by traditional kHz-rate samplers, BERTScope makes bit decisions at the full bit-rate of the signal allowing for measurement to be achieved in 7 seconds with the BERTScope. The added depth and speed of test can be used to gauge design margins during validation and offers real financial rewards for production testing.

#### **BERTScope CRJ**

The new BERTScope CRJ Clock Recovery Jitter Analyzer provides both instrument grade clock recovery and jitter analysis. The CRJ performs clock recovery from 150 Mb/s to 12.5 Gb/s with both adjustable peaking and adjustable loop bandwidths from 100 kHz to 12 MHz to provide the “Golden PLL” response required for testing by many standards. The CRJ also measures duty cycle distortion (DCD) and performs direct integrated jitter measurements of frequency components from 200 Hz – 90 MHz. This system allows the user to specify any frequency band of interest, such as 10 kHz to 80 MHz used by SONET/SDH/OTN, to measure the integrated jitter within these limits. It also provides a direct jitter spectrum view, which helps the user isolate the sources of the jitter in their signals.

#### **About BERTScope™**

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](http://www.bertscope.com).

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