



SHF and CoreOptics jointly announce cooperation in providing the first commercially available state of the art clock recovery module for 40Gbps applications.

Atlanta, GA - Optical Fiber Communication Conference - March 25, 2003: SHF Communication Technologies AG, a pioneer in measurement equipment and CoreOptics, Inc., a leading supplier of modules and subsystems today jointly announce their cooperation in providing the first stand alone clock recovery module for 40Gbps component testing, transmission system and fiber loop experiment applications.

The module extracts a clock frequency of half the input bit rate from both RZ and NRZ signals. Optionally, a full 40 GHz clock output can be provided, as well as up to two internal reference oscillators selectable from a range of fixed frequencies. These features will enable the users to test the full range of standard and FEC-supported line codes.

The key element of SHF's clock recovery solution is a very small form factor multi-chip module (MCM) from CoreOptics, a company providing advanced optical networking subsystem solutions for 10 and 40 Gbps. The MCM is based on a thermally enhanced ceramic substrate using CoreOptics' ultra high-speed SiGe mixed-signal integrated circuits in a flip-chip mounting configuration.

"We always deploy the best available technologies to deliver leading edge instruments and test solutions which enable our customers to run their experiments in the most professional way. This clock recovery module provides extremely low jitter clock signals from RZ or NRZ signals even at data signal input levels below 50mV," said Michael Martin, CTO of SHF.

"We are very excited at CoreOptics to enable SHF to build compact stand-alone clock recovery solutions at 40 and 43 Gbps using our IC and MCM technology and hence to help SHF to round up their offering of the best in class 40 Gbps test suite", said Christoph Schulien, Vice President of Business Development for Europe and Asia of CoreOptics.

About SHF

SHF Communication Technologies AG, Berlin - Germany, is a leading supplier of test & measurement equipment, amplifiers, passive components and modules for the high-speed data communication market. The most important products of SHF are: Test & Measurement Equipment such as multiplexers, demultiplexers, BERT systems and optical transmitters; Amplifiers with high bandwidth (> 50 GHz) and Passive Components such as low loss bias tees and monitor tees for frequencies up to 110 GHz. SHF has over 16 years of experience in high speed data communication and was the first to introduce 40 Gbps test & measurement equipment. For more information, visit <http://www.shf.biz>

About CoreOptics

CoreOptics with operations in Nuremberg, Germany and Princeton, New Jersey, develops and manufactures modules and subsystems for ultra high-speed optical networking applications in the telecommunications and information technology industries. CoreOptics current portfolio includes advanced transponders for Metropolitan, Regional and Long Haul optical systems at 40Gbps and 10Gbps using DWDM, SONET/SDH, ATM and IP protocols. The company was founded in January

2001 and has so far received financing of \$34.5M from leading venture capital firms and corporations. Over 50 highly skilled engineers with extensive experience in RF and Digital ASIC design and optical systems, applications and networks represent the foundation of CoreOptics' capability to provide innovative and differentiated solutions by addressing impairments in the optical layer through advanced electronics signal processing. More information can be found at: <http://www.coreoptics.com>

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