



Enabling Open Tolerant Networks

Press Release, March 23, 2009

## **CoreOptics Announces Validation of “Coherent” Architecture for Cost-Effective 40G Transmission**

**CoreOptics coherent technology will enable cost effective transition for carriers upgrading backbone networks from 10G to 40G DWDM and sets the foundation for 100G optical networks**

**San Diego, CA, USA, March 23, 2009** -- CoreOptics Inc., a leading designer and manufacturer of 10/40/100 Gbps optical networking subsystems, today announced the validation of the company's algorithm implementation and DSP architecture to achieve what the company believes will enable the most cost-effective 40G transmission systems compared to currently available technologies.

“We have had extensive discussions with OEM and carrier customers over the past two years and we are seeing a rapidly-growing consensus building around the coherent approach to 40G transmission as the only viable solution meeting the cost/performance requirements of carriers.” said Hamid Arabzadeh, Chairman of the Board, President and CEO for CoreOptics. “Our validation process involved extensive cooperation with our customers and is a major milestone towards company's product availability later this year. We are making this announcement at this time to demonstrate to the industry that we are aligning our assets and manufacturing capabilities in order to meet the customer demand for this technology.”

“Operators do not like to limit themselves by deploying equipment that has a limited life expectancy and providing an economical 10G-to-40G upgrade path is critical for success,” said Ron Kline, Research Director Optical Networks at Ovum. “Vendors, like CoreOptics, who develop and implement DSP-based techniques such as electronic dispersion compensation and coherent detection that enable 40G to operate with the same span lengths and system performance specs as 10G, provide a good fit to market needs.”

“Our testing has validated that CoreOptics 40G coherent technology offers disruptive performance increase in CD and PMD impairment mitigation for 40G applications when compared to current modulation schemes incorporating DPSK or DQPSK,” said Dr. Christoph Schullien, CoreOptics CTO. “We've been in forefront of developing DSP technologies based on our own Maximum Likelihood Sequence Estimation (MLSE) algorithm for many years and as such, our coherent product based on our IP in equalization technologies significantly improves the performance of our offering compared to other alternatives in the market.”

CoreOptics currently offers 10 Gbps DWDM, 40 Gbps Single Channel Short Reach and 40/43G DWDM transponder modules. The company's product portfolio also includes 40G Serializer/De-serializer IC's, 43 Gbps Ultra-FEC, 40G Mux/DeMux for 4x10G client signals and Interface Converter supporting SFI-5s, SFI-4, XFI to enable building of next generation Open Tolerant Networks. Key benefits of these product platforms include reduction in first-in CAPEX, by eliminating the need for the conventional Dispersion Compensation Modules (DCMs) and Dual-Stage amplifiers. The OPEX savings include simplification of network planning, installation and provisioning by enabling a complete set of plug-and-play features.

## **About CoreOptics**

CoreOptics, with operations in Nuremberg, Germany and San Jose, California/Manchester New Hampshire, USA, develops and manufactures subsystems for ultra high-speed optical networking applications in the telecommunications and information technology industries. CoreOptics current portfolio includes advanced 10Gbps and 40Gbps transponders for Metropolitan, Regional and Long Haul optical systems using DWDM, OTN, SONET/SDH, ATM and IP protocols.

The company was founded in January 2001 and has received financing from leading venture capital firms T-com, GIMV, Crescendo Ventures, TVM, High Tech Private Equity, Atila Ventures, Quest for Growth and others. The team includes over 140 highly skilled engineers with extensive experience in RF and digital ASIC design as well as optical systems, applications and network architecture. Additional information about CoreOptics can be found at [www.CoreOptics.com](http://www.CoreOptics.com)

[Please visit us at OFC/NFOEC 2009 at booth 403 for a demonstration of our product portfolio.](#)

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