



## **KAIAM CORPORATION DEMONSTRATES 100Gb/s DWDM CFP TRANSCEIVER AT OFC/NFOEC 2012**

*Transceiver substantially increases density and reduces cost compared to standard DWDM XFP solutions for line or client side applications*

NEWARK, CA – February 27, 2012 – Kaiam Corporation, a leader in hybrid Photonic Integrated Circuit (PIC) technology, will demonstrate their 100 Gb/s DWDM CFP transceiver at OFC/NFOEC 2012 in Los Angeles. The CFP transceiver has all the functionality of ten individual DWDM EML-based XFPs on a 100GHz-spaced ITU grid, and also includes a first stage wavelength multiplexer and demultiplexer. The module is about 1/3 the size of ten individual XFPs and a fraction of the cost, thus saving system integrators both space and expense. These modules are available as samples today, with volume production planned for July 2012.

Kaiam's MEMS-based integration technology allows the fabrication of dense multi-function modules using generally available tested die. The critical optical alignment between the components is achieved through silicon micro-mechanics. Any combination of functions can be readily obtained by choosing the appropriate subcomponents. Kaiam's first product, demonstrated at OFC/NFOEC in 2011, integrated four 10Gb/s directly modulated lasers and a PLC multiplexer for 40Gb/s QSFP+ LR4 transceivers. Volume production of this product is underway with shipments to multiple customers. The current CFP uses the same optical alignment technology as the previous version but with ten electro-absorption modulated lasers. The ten channels are tuned to the ITU grid at 100GHz spacing using a thermo-electric cooler.

Thomas Schrans, Kaiam's Vice President of Engineering commented, "For many applications, DWDM XFPs or even the newly-introduced DWDM SFP+ have too much granularity, are too big, and are too costly. Our DWDM CFP, on the other hand, adds ten channels at a time with higher density and at lower cost. Four different units can be combined with a band-mux to give 400Gb/s in the fiber; making it fully compatible with the presently deployed 10Gb/s infrastructure. With only four part numbers, tunability is not critical for managing inventory."

DWDM CFPs are readily customized for various applications. On the transmitter side, the output wavelengths are easily modified by selecting different subcomponents to match user requirements in banded architectures. Similarly, by switching from PIN diodes to APDs on the receiver side, the modules can be made fully compatible with the 40km specification of the 10x10 MSA. Linear TIAs on the receiver can be useful in applications where EDC on the host card extends the reach to beyond 80km.

Kaiam will demonstrate the performance of the Company's 100Gb/s CFP at the Optical Fiber Communication Conference and Exposition/National Fiber Optic Engineers Conference ([OFC/NFOEC](#)) in Los Angeles (March 6 - 8) at booth #835.

## **About Kaiam Corporation**

Headquartered in Newark, California, Kaiam Corporation is a private company commercializing photonic integrated circuits for various applications. Founded by leading technologists from the optical networking industry, the team has a record of delivering breakthrough products that change the rules of the marketplace. It is currently working with multiple partners to deliver PIC-based products for various fiber optic applications. For more information, visit [www.kaiamcorp.com](http://www.kaiamcorp.com).

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