Oclaro Adds New 100 Gbps Coherent Receivers to Its High-Speed Networking Portfolio

Small Footprint Enables Customers to Develop Lower Cost, High Density Modules and Line Cards with Increased Functionality

SAN JOSE, Calif., Sept. 12, 2011 /PRNewswire/ -- Oclaro, Inc. (NASDAQ: OCLR), a tier-one provider of optical communications and laser solutions, today announced the CR5100™ series of 100 Gbps coherent receivers. These new receivers provide customers with a compact and cost-effective solution to implement coherent communication using the polarization multiplexed quadrature phase shift keying (PM-QPSK, also referred to as DP-QPSK) format, which is the modulation scheme of choice for metro and long-haul optical transmission. The company will be previewing the new receivers at the upcoming ECOC show (booth #1368 & 1370) on September 19-21, 2011, in Geneva, Switzerland.

"The introduction of these new 100 Gbps receivers is another milestone in our strategy to lead the coherent 100 Gbps market," said Yves Hardy, Sr. Director of Transmission Product Management at Oclaro, Inc. "By leveraging our expertise in indium phosphide integration and our proven track record in developing coherent solutions for high-speed networks, we've been able to significantly lower the footprint of these receivers, which frees up valuable space for adding more functionality to customers' modules and line cards."

About the New 100 Gbps Receiver

Oclaro's new 100 Gbps coherent receiver is used in transmission networks that employ the PM-QPSK modulation format. The new CR5100 series (together with the CR5040 Series for 40 Gbps PM-QPSK) is designed to be compliant with the OIF Implementation Agreement OIF-DPC-RX-01.0, a collaborative forum to which Oclaro has been a key contributor. The receiver is also available in a significantly reduced form factor for customers who want to benefit from this next generation footprint. This advanced design provides a compact and cost effective solution for implementing coherent transponders using PM-QPSK, thus minimizing chromatic dispersion impairments and improving the spectral efficiency of existing fiber infrastructure.

The CR5100 100 Gbps coherent receiver uses Oclaro's indium phosphide (InP) technology to implement the optical hybrid phase mixers with integrated waveguide photodetectors, and employs high levels of functional integration on InP to minimize cost and enable high volume manufacture. The electrical outputs of the balanced waveguide photodetectors are then coupled to a pair of dual-input linear TIA's. The coherent receiver has several electrical control features to optimize the performance of the TIAs, such as bandwidth control and manual gain adjustment. The 32 GBaud output from the receiver is then coupled to the input of the subsequent ADC/DSP IC.

The functional components of the receiver are assembled in a miniature ceramic package, which is less than one half of the minimum footprint defined by the OIF. This small footprint highlights Oclaro's leadership in InP photonic integration, which enables a significant increase in density on the module or line card. The miniature package is also available with an adaptor PCB for customers who prefer compliance to the form, fit and function defined by the OIF Implementation Agreement.

Availability

Oclaro is now sampling the CR5100 series of 100 Gbps coherent receivers to tier-one systems and module manufacturers with production release scheduled for later this year.

About Oclaro

Oclaro, Inc. (NASDAQ: OCLR) is a tier-one provider of optical communications and laser components, modules and subsystems for a broad range of diverse markets, including telecommunications, industrial, scientific, consumer electronics and medical. Oclaro is a global leader, dedicated to photonics innovation with cutting-edge research and development

(R&D) and chip fabrication facilities in the U.S., U.K., Switzerland, Israel, Korea and Italy, and in-house and contract manufacturing sites in China and Thailand with design, sales and service organizations in each of the major regions around the world. www.oclaro.com

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