



Oclaro Introduces Suite of L-Band Optical Solutions For High-Speed Data Center Interconnect Applications

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Industry Leading Indium Phosphide Technology Enables Oclaro to Double Optical Fiber Capacity by Expanding Component and Module Product Family into L-band

SAN JOSE, Calif., March 8, 2018 /PRNewswire/ -- [Oclaro, Inc.](http://www.oclaro.com) (NASDAQ: OCLR), a leading provider and innovator of optical communications solutions, today announced it is developing a suite of integrated optical components and modules in the L-band to allow data center customers to expand capacity on interconnects between data centers on existing optical fiber. These solutions will enable transmission up to 600 Gbps per wavelength for long-haul, regional, metro and data center interconnect applications. The portfolio includes a 64Gbaud micro-Intradyn Coherent Receiver (micro-ICR), 32 & 64Gbaud Integrated Coherent Transmitter (ICT), 100kHz micro-integrated tunable laser assembly (micro-ITLA), a 64Gbaud high-bandwidth co-packaged driver modulator (HB-CDM), and a high-bandwidth LiNbO3 Polarization Multiplexed Quad Mach-Zehnder (PM-QMZ) modulator.

"Historically, the requirement for L-band components has been largely driven by networks based on dispersion shifted fiber," said Beck Mason, President of Oclaro's Integrated Photonic Business. "Recently C+L band systems have been gaining popularity for data center interconnect applications to maximize the use of existing fiber plant. Oclaro is applying its world-class Photonic Integration and packaging expertise to develop a broad portfolio of L-band solutions for our customers."

Oclaro will be showcasing its suite of integrated optical components at the upcoming OFC show on March 11-15 in San Diego, CA in booth #2812.

About the Suite of Components

The Oclaro L-band micro-ITLA complies with the OIF micro-ITLA Implementation Agreement and uses Oclaro's thermally tuned DS-DBR laser technology to dramatically reduce low-frequency phase noise and linewidth while also increasing optical output power, all contained in a reduced size footprint.

The L-band HB-CDM complies with the OIF HB-CDM Implementation Agreement and uses Oclaro's high-bandwidth L-band Indium Phosphide PM-QMZ modulator chip with a co-packaged matched RF driver. Flexible optical power and high linearity is achieved through the use of semiconductor optical amplifiers integrated within the InP modulator chip.

The high-bandwidth L-band LiNbO3 PM-QMZ modulator is already released to production.

The L-band 64Gbaud+ ICT combines a narrow line width L-band laser with a high bandwidth L-band PM-QMZ Mach-Zehnder modulator to support flexible baud rates up to 64Gbaud and 64-QAM modulation. This enables transmission from 100 Gbp/s to 600 Gbps. Built-in SOAs, tunable filter and Polarization Multiplexer eliminate the need for external optical components and simplify assembly while enabling operation in colorless networks. The ICT provides a local oscillator output with +12dBm EOL power for a mated coherent receiver.

The L-band 64-Gbaud+ ICR is a fully integrated coherent receiver able to support flexible data rates from 100 Gbp/s to 600G+. It supports rates up to 64Gbaud with modulation schemes such as 64-QAM. The 64Gbaud ICR has an integrated MPD and VOA to support single channel and multichannel applications in colorless networks. It is compliant with the form factor specified in the OIF Implementation Agreement OIF-DPC-MRX-01.0

The compact form factors and integrated functionality of the L-band 64Gbaud ICT-ICR pair make them suitable for the stringent size requirements on next-generation high density 600 Gbps platforms.

About Oclaro

Oclaro, Inc. (NASDAQ: OCLR), is a leader in optical components and modules for the long-haul, metro and data center markets. Leveraging more than three decades of laser technology innovation and photonics integration, Oclaro provides differentiated solutions for optical networks and high-speed interconnects driving the next wave of streaming video, cloud computing, application virtualization and other bandwidth-intensive and high-speed applications. For more information, visit www.oclaro.com or follow on Twitter at @OclaroInc.

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