

Oclaro Delivers Industry's First Family of Intra-Node Amplifiers for Next Generation ROADM Network Architectures

Off-Setting Losses in the Node While Maintaining Space and Power Requirements is Critical for Maintaining the Performance of High Speed Networks

SAN JOSE, Calif., March 1, 2012 /PRNewswire/ -- Oclaro, Inc. (NASDAQ: OCLR), a tier-one provider and innovator of optical communications and laser solutions, today announced the industry's first family of amplifiers targeted directly at off-setting losses inside the nodes of next generation ROADM (reconfigurable optical add/drop multiplexer) network architectures that will carry 100 Gbps, 400 Gbps and 1 Tbps channels. Losses inside the node have steadily increased as node architectures have evolved in complexity, and Oclaro is the first company to target this problem with a family of intra-node amplifiers, which are built on its successful OASIS™ platform. These amplifiers are aimed at maximizing the overall network performance while also meeting the stringent space and power constraints of next generation node designs.

Next generation networks will bring increased agility and asset utilization through architectures that enable high degrees of colorless, directionless and contentionless routing of wavelengths in the optical domain. These increased demands on optical routing and connectivity within the node are creating losses that affect the overall network performance and can lead to significant limitations in the size of the optical network that can be supported without regeneration. By utilizing Oclaro's new intra-node amplifiers, network equipment manufacturers can maintain the network performance and allow installation on existing fiber plants while minimizing footprint, power consumption and heat dissipation.

"With the broadest portfolio of products targeted directly at the core optical network, Oclaro is able to leverage its expertise to address critical design challenges posed by the more complex node architectures required for higher bit rate networks," said Dr. Terry Unter, President and General Manager of the Oclaro Optical Networks Solutions Business Unit. "By using these new amplifiers, our customers can now integrate amplification within the node, where space and power are at a premium, to enable higher bit rate wavelengths without compromising overall network performance."

"Oclaro continues to deliver the technology innovation for the core optical network that will help drive the growth of the 100 Gbps market, which we expect to be a nearly \$2 billion market by 2016," said Daryl Inniss, Vice President and Practice Leader of Components Telecoms at Ovum. "These higher bit rate networks have become increasingly complex as manufacturers continue to add more features while expanding the capacity. Such complexity results in higher node losses, which limit the network performance and may prevent installation on existing fiber plants. We think these amplifiers will be important tools to offset these higher losses while fitting onto the very dense line cards that we see today."

Oclaro's new family of intra-node amplifiers is leveraging Oclaro's vertical integration strategy by using Oclaro's recently announced uncooled compact pumps and dual-chip 980 nm pump lasers. The uncooled 980 nm pumps offer up to 500 mW of output power from a 10-pin butterfly package. The dual-chip pumps feature a single 14-pin package that replaces two 600 mW discrete pumps, which significantly lowers the total module power consumption. These pump lasers therefore allow for simplified control electronics and reduced component count, while also reducing the space and power required by the optical amplifiers.

About the OASIS Intra-Node Amplifier Family

Oclaro's first two family members, a small form factor single-channel amplifier and a compact arrayed multi-channel amplifier, are built on Oclaro's proven OASIS platform that has been deployed in volume with customers around the globe. The single-channel amplifier is a very small form factor booster or pre-amplifier designed specifically for transponder applications. Pre-amplifier features include expanded input power ranges and ultrafast optical transient control, which enhance the robustness and performance of high bit rate direct detection and coherent receivers. Booster amplifiers are optimized for single-wavelength amplification of amplitude and/or phase modulated signals. The arrayed amplifier is a space and power efficient amplifier targeted at off-setting losses of multiple parallel connections in add/drop cards or between line interface cards.

About the 980 nm Dual-Chip and 980 nm Uncooled Pump Lasers

The Oclaro 500mW uncooled pump delivers a significantly smaller form factor with a SFF 10-pin butterfly package that can also be used in existing 14-pin slots. With 500mW of kink-free power, this laser delivers the lowest power consumption of any such pump solution in the industry. The Oclaro 2x600mW dual pump is designed for dual stage, arrayed and mid-stage access amplifiers, as well as ROADM and amplifier based line cards. The pump features two dynamically independent co-packaged lasers that are individually addressable and stabilized, delivers negligible cross-talk and offers the full functionality of traditional

discrete 14-pin pumps. Both pumps feature Oclaro's highly successful OC2 alignment and package platform, which has been field proven since 2004 and meets the most stringent reliability requirements.

About Oclaro

Oclaro, Inc. (NASDAQ: OCLR) is a tier-one provider and innovator 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.

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