



June 22, 2015

Applied Optoelectronics Announces 25 Gbps Lasers

SUGAR LAND, Texas, June 22, 2015 (GLOBE NEWSWIRE) -- Applied Optoelectronics, Inc. (Nasdaq:AAOI), a leading provider of fiber-optic access network products for the internet datacenter, cable broadband, and fiber-to-the-home markets, today announced the introduction of laser diodes operating at a data rate of up to 25 Gigabits per second (Gbps).

The new Distributed Feedback (DFB) lasers are designed for next-generation datacenters, where interconnect speeds of 25 Gbps will enable higher data throughput, reduced power consumption, and reduced size.

AOI's proprietary laser manufacturing process, utilizing advanced Molecular Beam Epitaxy, is conducted in-house at a state-of-the-art semiconductor fab in Sugar Land, TX.

"AOI's 18-year history of innovation as a manufacturer of advanced laser diodes has provided a solid foundation of experience, which we have leveraged in the design of these new 25 Gbps devices," commented Dr. Alex Anselm, VP and Head of AOI's Semiconductor Products Division. "Directly modulating lasers at such high frequencies requires precise control over the epitaxy process as well as many novel design features in the devices themselves. By utilizing our in-house fab, we were able to optimize the design quickly and expect to move rapidly into production."

Key technical highlights of the products include:

- | Low threshold current: < 8 mA
- | High slope efficiency: > 0.25 W/A
- | Rise/fall time: < 20 ps
- | Proprietary high-yield device process
- | Compliant with the rigorous Telcordia GR-468 reliability requirements

The lasers are expected to be utilized in 100 Gbps QSFP-28 transceivers and light engines, including CLR4 and PSM4 for datacenter applications.

Laser samples are available now, with production commencing in the fourth quarter of 2015.

About Applied Optoelectronics

Applied Optoelectronics Inc. (AOI) is a leading developer and manufacturer of advanced optical products, including components, modules, and equipment. AOI's products are the building blocks for broadband fiber access networks around the world, where they are used in the internet datacenter, CATV broadband, and fiber-to-the-home markets. AOI supplies optical networking lasers, components and equipment to tier-1 customers in all three of these markets. In addition to its corporate headquarters, wafer fab and advanced engineering and production facilities in Sugar Land, TX, AOI has engineering and manufacturing facilities in Taipei, Taiwan and Ningbo, China. For additional information, visit www.aoi-inc.com.

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Source: Applied Optoelectronics, Inc.

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