



Applied Optoelectronics Announces 100 Gbps per Lambda PAM4 Directly Modulated Lasers

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SUGAR LAND, Texas, Nov. 13, 2017 (GLOBE NEWSWIRE) -- Applied Optoelectronics, Inc. (Nasdaq:AAOI), a leading provider of fiber-optic access network products for the internet datacenter, cable broadband, fiber-to-the-home and telecom markets, announced the development of uncooled 100 Gigabits per second (Gbps) per lambda PAM4 directly modulated lasers (DMLs) for 400 Gbps optical transceivers.

Transceivers based on DMLs are preferred in datacenter applications due to their low power consumption and low cost, compared with solutions based on silicon and other external modulators. The 1310nm 53 Gbaud PAM4 100 Gbps per wavelength lasers leverage AOI's mature high volume 25 Gbps DML product platform, which was further optimized to achieve a high laser bandwidth of nearly 30 GHz. At 100 Gbps, the newly developed lasers exhibit PAM4 eyes with a transmitter dispersion eye closure quaternary (TDECQ) value of 2.5dB, along with other performance metrics that make them suitable for use in 400G DR4, 400G FR4, and 100G DR1 transceivers that meet the IEEE 802.3 Ethernet transceiver standards.

"100 Gbps directly modulated lasers are the key to next generation 400G products for datacenter applications. By building on our current PAM4 DML platform development, we are now able to achieve 100 Gbps per lane. We believe that this solution is the best technical approach to extend the cost leadership AOI has engineered at 40G and 100G to 400G and beyond," commented by Dr. Jun Zheng, Applied Optoelectronics, Inc. vice president of R&D.

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, FTTH and telecom markets. AOI supplies optical networking lasers, components and equipment to tier-1 customers in all four 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.ao-inc.com.

Media Inquiries:

Willis Chen
281/295-1807
wchen@ao-inc.com

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