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Applied Optoelectronics Announces 10 Gbps Electro-absorption Modulated Lasers (EMLs)

SUGAR LAND, Texas, March 06, 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 (FTTH) and telecom markets, today announced the development of Electro-absorption Modulated Lasers (EMLs) operating at a data rate of 10 Gigabits per second (Gbps).

AOI's 10 Gbps EMLs are designed specifically for 10GBASE-ZR Ethernet and cable TV (CATV) Remote PHY connectivity to enable deployment of the next-generation FTTH, telecom, and CATV networks. The lasers are available at wavelengths spanning the ITU-T C-band dense wavelength division multiplexing (DWDM) grid and are able to support fiber transmission distances up to 80km. They also feature a high laser chip operating temperature up to 55^{O}C, enabling commercial and industrial operating temperature ranges for transceivers.

"We utilized AOI's unique combination of technology and manufacturing processes in the design of these high performance EMLs, which required optimizing the design of both the distributed feedback laser and the electro-absorption modulator, which is key to the performance of these devices. With our in-house laser design and manufacturing processes, we have the precise control necessary to optimize these devices for long distance transmission up to 80km. By applying our experience in high-temperature module design, we have also built transceivers based on these lasers that are suitable for outdoor industrial temperature applications," said Dr. Jun Zheng, Applied Optoelectronics, Inc. VP of R&D.

As more companies deploy fiber deep CATV or FTTH networks, the availability of lasers operating with high data rates (> 5 Gbps), with performance suitable for long transmission distances (up to 80km) and able to operate in demanding outdoor conditions will become a critical factor in enabling widespread deployment. AOI's in-house laser manufacturing and demonstrated ability to ramp production quickly in response to demand, means that operators and equipment OEMs can feel secure in supply availability as they deploy these new advanced fiber-optic networks.

The new 10 Gbps EML will be available in the second quarter of 2017 and volume production will begin in the second half of 2017.

For more information about this product, please contact AOI's sales department at sales@ao-inc.com, or by telephone at 281-295-1800.

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, fiber-to-the-home 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.

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