Enablence Launches High-Performance CWDM and LWDM MUX and DEMUX Products

High-performance CWDM and LWDM devices enable broader applications of Data Center Interconnection and 5G application, with ultra-low insertion loss and ultra-wide passbands.

FREMONT, Calif., March 06, 2019 -- Enablence Technologies Inc. ("Enablence" or the "Company") (TSXV: ENA), a leading supplier of innovative integrated optical products for data center interconnection and 5G networks, today announced a new family of high performance and low-cost planar lightwave circuit (PLC) products for Coarse Wavelength Division Multiplexing and LAN Wavelength Division Multiplexing. The products combine Enablence's advanced VortexTM design and proprietary APCVD processing technology, to provide ultra-low insertion loss and ultra-wide passband performance, which are crucially needed for the next generation 4x100G data center interconnection applications, and the emerging 5G applications.

As the data center market continues to grow at a 30% rate in the past 4 years, there is an increasing demand for high performance and low-cost CWDM and LWDM multiplexers and demultiplexers. The next generation data center interconnection applications, where the 4x100G technology is applied, demands high performance from the PLC. Low insertion loss is essential to achieve error-free transmission of data. Meanwhile, for 5G applications, extended temperature ranges are often needed, sometimes as much as -400C and 850C (for outdoor applications). Enablence has successfully addressed both of these concerns. Enablence MUX and DEMUX PLCs can achieve ultra-low insertion loss with on-chip losses less than 1.0dB. At the same time, passbands can exceed 16 nm for these same chips. Enablence maintains an active program to further improve performance, most notably in insertion loss.

"Over the course of product development, we have worked closely with several of our large customers, and at this stage, devices have been tested in the engineering lab as well as in the production lines with several market leaders. Our customers are very satisfied with the product performance they have received. Meanwhile, the high yield across our wafers leads to low cost for the backend manufacturing, allowing us to eliminate some screening tests, resulting in tremendous cost saving," said Steve Wang, Enablence's Chief Executive Office. "Enablence is focusing on their core competency in planar lightwave circuit (PLC) design and fabrication. We are confident that we are the leader in both high performance and low cost. We ensure our high yield by coherently integrating our design process with our processing technology. In addition, based on our 20-years of experience in PLC technology development, we can provide a quick turn-around of technology and product development for our strategic customers," added Dr. Wang.

Fred Chang, SVP and GM of Applied Optoelectronics Inc. (AOI), one of Enablence's customers, commented, "We are pleased to work together with Enablence on several projects that are targeted at 400G datacenter and 5G telecom applications. The Enablence team has developed high performance products and met an aggressive development schedule, as needed to meet our customers' requirements."

The 4-channel CWDM MUX and DEMUX, and the 4-channel and 8-channel LWDM MUX and DEMUX, are available for immediate deliveries. Products can be shipped with different form factors depending on customer preferences, and they can be delivered in the wafer, chip, and module form.

About Enablence Technologies Inc.

Enablence is a publicly traded company that designs, manufactures and sells optical components and subsystems to a global customer base. It utilizes its patented technologies, including planar lightwave circuit intellectual property, in the production of an array of photonic components and broadband subsystems that deliver a key portion of the infrastructure for current and next -generation telecommunication systems. The Company's product lines address all three segments of optical networks: access – connecting homes and businesses to the network; metro – communication rings within large cities; and long-haul – linking cities and continents. For more information, visit www.enablence.com.

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.

Forward-looking Statements

This press release may contain forward-looking statements regarding the use of proceeds of the Equity Offering; the timing and ability of the Corporation, if at all, to obtain final approval of the Equity Offering from the TSX Venture Exchange; an exemption being available under MI 61-101 and Policy 5.9 of the TSX Venture Exchange from the minority shareholder approval and valuation requirements for each related party transaction; objectives, goals or future plans; potential financing transactions, lending facilities, debt to equity conversion, future sales and orders, funding of ongoing operations based on current expectations, forecasts and assumptions which involve risks and uncertainties associated with our business and the economic environment in which the business operates. All such statements are made pursuant to the 'safe harbour' provisions

of, and are intended to be forward-looking statements under, applicable Canadian securities legislation. Any statements contained herein that are statements of historical facts may be deemed to be forward-looking statements. By their nature, forward-looking statements require us to make assumptions and are subject to inherent risks and uncertainties. We caution our readers of this press release not to place undue reliance on our forward-looking statements as a number of factors could cause actual results or conditions to differ materially from current expectations. Please refer to the risks set forth in the Company's continuous disclosure documents that can be found on SEDAR www.sedar.com. Enablence does not intend, and disclaims any obligation, except as required by law, to update or revise any forward-looking statements whether as a result of new information, future events or otherwise.

For further information contact:
Enablence Technologies Inc.
Steve Wang (CEO)
+1 613 656-2850 ext. 2