

## **II-VI Incorporated Unveils 3-pin 980 nm Uncooled Micro-Pump Laser Module for Emerging High Bit Rate Transmission Applications**

PITTSBURGH, March 14, 2017 (GLOBE NEWSWIRE) – II-VI Incorporated (NASDAQ:IIVI), a leading provider of pump laser modules and micro-optics for transceiver-embedded optical amplifiers, today announced the introduction of its uncooled 980 nm pump laser module in a compact 3-pin micro-format package designed to meet the stringent reliability and power-efficiency requirements of ultra-compact amplification in current and next generation high bit-rate transceivers.

“The demand for 100G and 200G coherent transceiver modules will grow in volume at a 21% CAGR from 2016 to 2021,” said Kevin Lefebvre, Principal Analyst for Optical Components, Ovum. “The market expansion for both coherent and PAM4 technologies will be assisted through smaller, more efficient and lower power devices such as II-VI’s uncooled micro-pump laser module.”

II-VI’s MLU96Z-series measures only 141 cubic millimeters in volume and features an 80 micron small-bend radius polarization-maintaining fiber pigtail to enable optical amplification within small transceiver packages. The MLU96Z-series consumes less than 0.5 Watt of power at the typical use conditions and up to 80 °C maximum operating temperature, addressing the critical power consumption requirements of pluggable transceivers.

“The emergence and rapid growth of high bit rate transceivers in pluggable form factors like CFP2, CFP4 and OSFP are driving the need for compact amplification,” said Dr. Sanjai Parthasarathi, Vice President, Product Marketing and Strategy, Optical Communications Group. “Compared to our highly successful 8-pin uncooled mini-DIL pump laser, our new 3-pin micro-pump is 75% smaller and achieves a new breakthrough in 980 nm pump miniaturization.”

The MLU96Z-series is built on II-VI’s field proven OC-2 fiber alignment platform for over two million modules shipped to date. It also relies on II-VI’s market-proven G08 laser chip platform to ensure superior wavelength locking performance, reliability and stability. The MLU96Z-series, together with II-VI’s portfolio of ultra-compact hybrid passives based on II-VI’s micro-optics technology platform, enable low-noise and high-power optical amplification within transceiver form-factors previously unachievable. Prototype samples of the MLU96Z-series are available now and are expected to be fully qualified in CYQ2 2017.

**II-VI at OFC2017, Mar. 21-23, 2017, Booth #2101**

II-VI will showcase new products at OFC 2017 that are driven by advances in our materials and technology platforms. The product showcase will include novel embedded monitoring solutions for transport networks, highly compact optical amplifier solutions tailored to enable high bit-rate DWDM transceivers, as well as key devices and sub-assemblies for datacenter transceivers.

### **About II-VI Incorporated**

II-VI Incorporated, a global leader in engineered materials and opto-electronic components is a vertically integrated manufacturing company that develops innovative products for diversified applications in the industrial, optical communications, military, life sciences, semiconductor equipment, and consumer markets. Headquartered in Saxonburg, Pennsylvania, with research and development, manufacturing, sales, service, and distribution facilities worldwide, the Company produces a wide variety of application-specific photonic and electronic materials and components, and deploys them in various forms including integrated with advanced software to enable our customers.

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