

NeoPhotonics Announces Pilot Shipments of Class 60 Coherent Modulator and Class 60 Coherent Receiver for 800G and Above Coherent Transmission

NeoPhotonics Class 60 Coherent Components Provide Complete Optical Solutions for 96 Gbaud and Above Symbol Rate Applications in Combination with its Ultra-Narrow Linewidth Nano Tunable Laser

SAN JOSE, Calif. — May 13, 2021 - NeoPhotonics Corporation (NYSE: NPTN), a leading developer of silicon photonics and advanced hybrid photonic integrated circuit-based lasers, modules and subsystems for bandwidth-intensive, high speed communications networks, today announced Limited Availability of Class 60 versions of its Coherent Driver-Modulator (CDM) and Intradyne Coherent Receiver (Micro-ICR). These components are now shipping in initial quantities to multiple customers and address the next generation of 96 GBaud and above systems.

NeoPhotonics Class 60 CDM and Micro-ICR are mechanically compatible with their industry-leading Class 40 counterparts and provide a natural upgrade path to higher baud rates supporting data rates that include 800G applications. Optical system performance improvements enabled by operation at these increased baud rates enable NeoPhotonics customers to pack more data over longer distances for better economics, lower cost per bit, lower operating expenses and lower power consumption, all under the same hardware envelope as they currently enjoy using NeoPhotonics Class 40 components. This 96 Gbaud product suite continues NeoPhotonics leadership in highest speed-over-distance solutions.

Higher symbol rates increase data capacity while maintaining superior optical signal-to-noise ratio (OSNR) and reach performance, thereby enabling the highest speed-over-distance use. These new components are available in compact form factor packages suitable for use in pluggable modules and compact daughter cards. These Class 60 Coherent components extend the highest speed-over-distance performance of our existing Class 40 products by increasing the 3 dB bandwidth from 40 GHz to 60 GHz. These NeoPhotonics components [work together](#) to enable customers to implement single wavelength data transmission near one [Terabit](#) per second over datacenter interconnect (DCI) distances, as well as 400~500Gbs transmission over long haul distances.

NeoPhotonics Class 60, polarization-multiplexed, coherent driver modulator (CDM) features a co-packaged InP modulator with four linear, high bandwidth, differential drivers, and is designed for low modulation voltage, or “V-Pi”, low insertion loss and a high extinction ratio. The compact package is compliant with the form factor of the OIF Implementation Agreement #OIF-HB-CDM-01.0. NeoPhotonics Class 60 High Bandwidth Micro-Intradyne Coherent Receiver (Micro-ICR) is designed for 96 GBaud symbol rates, essentially tripling the rate of standard 100G ICRs. The compact package is compliant with the OIF Implementation Agreement OIF-DPC-MRX-02.0.

These components are designed to work together with NeoPhotonics’ [“Nano” Ultra-Narrow Linewidth](#) external cavity tunable laser, which cuts the size approximately in half compared to current Micro-ITLAs, while featuring industry leading linewidth, low phase noise and low electrical power consumption.

“We are pleased to be shipping initial quantities of our Class 60 coherent modulators and receivers, which along with our Ultra-Narrow Linewidth external cavity “Nano” tunable laser, provide a complete suite of

components enabling customers to efficiently implement 800Gbps per wavelength coherent communications systems,” said Tim Jenks, Chairman and CEO of NeoPhotonics. “We are further extending the bandwidth of our Indium Phosphide coherent integration platform by developing Class 80 components for 130 Gbaud operation as we continue to serve the highest speed-over-distance applications,” concluded Mr. Jenks.

About NeoPhotonics

NeoPhotonics is a leading developer and manufacturer of lasers and optoelectronic solutions that transmit, receive and switch high-speed digital optical signals for Cloud and hyper-scale data center internet content provider and telecom networks. The Company’s products enable cost-effective, high-speed over distance data transmission and efficient allocation of bandwidth in optical networks. NeoPhotonics maintains headquarters in San Jose, California and ISO 9001:2015 certified engineering and manufacturing facilities in Silicon Valley (USA), Japan and China. For additional information visit www.neophotonics.com.

Legal Notice Regarding Forward-Looking Statements

This press release includes statements that qualify as forward-looking statements under the Private Securities Litigation Reform Act of 1995, including anticipated performance of NeoPhotonics’ products. Readers are cautioned that these forward-looking statements involve risks and uncertainties and are only predictions based on the company’s current expectations, estimates and projections. The actual company results and the timing of events could differ materially from those anticipated in such forward-looking statements as a result of these risks, uncertainties and assumptions. Certain risks and uncertainties that could cause the company’s results to differ materially from those expressed or implied by such forward-looking statements as well as other risks and uncertainties relating to the company’s business, are described more fully in the Company’s Annual Report on Form 10-K for the year ended December 31, 2020 and its Quarterly Report on Form 10-Q for the quarter ended March 31, 2021, filed with the Securities and Exchange Commission.

NeoPhotonics Contact:

LouVan Communications, Inc.

Michael Newsom

Mobile: +1 617-803-5385

Email: mike@louvanpr.com

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