



NeoPhotonics Announces General Availability and Volume Production of High Bandwidth Coherent Driver Modulator (HB-CDM) for 64 GBaud Cloud and Data Center Interconnect Applications

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Complete Coherent Optics Suite Including 64 GBaud HB-CDM, Micro-ICR and Ultra-Narrow Linewidth Micro-ITLA Shipping to Multiple Tier-1 Customers

SAN JOSE, Calif.--(BUSINESS WIRE)-- NeoPhotonics Corporation (NYSE: NPTN), a leading developer and manufacturer of silicon photonics and advanced hybrid photonic integrated circuit based lasers, modules and subsystems for bandwidth-intensive, high speed optical networks, today announced general availability and volume production of its [64 GBaud](#) High Bandwidth Coherent Driver Modulator (HB-CDM). This CDM joins NeoPhotonics a 64 GBaud Intradyne Coherent Receiver (ICR) and ultra-narrow linewidth tunable laser to enable customers to implement single channel 600G data transmission over data center interconnect (DCI) distances of approximately 80 km using 64 QAM. These components also support 400G over metro distances of 400-600 km using 64 GBaud and [16 QAM](#) or 200G over long-haul distances of greater than 1000 km using 64 GBaud and QPSK.

NeoPhotonics HB-CDM is implemented in a small form factor (25 x 12 x 5 mm) package which co-packages a linear, quad-channel, differential 64 GBaud driver with an Indium Phosphide based Mach-Zehnder (MZ) quadrature modulator chip. It provides efficient coherent multi-level modulation formats, such as DP-QPSK, DP-16QAM and DP-64QAM, to support coherent transmission up to 64 GBaud. The HB-CDM is compliant to the OIF's Implementation Agreement OIF-HB-CDM-01.0 "High Bandwidth Coherent Driver Modulator" (www.oiforum.com), and assures users a 3dB EO bandwidth of greater than 40GHz. The compact size fits in a CFP2-DCO pluggable module.

NeoPhotonics HB-CDM is also available in a "[C++](#)" CDM™ Modulator version, which supports tuning across the full "Super C-band" covering 6.4 THz of spectrum or up to 50 percent more than standard systems. The C++ CDM™ Modulator, [Ultra-Narrow Linewidth Tunable C++ LASER™ Micro-ITLA](#) and 64 GBaud C++ ICR™ Receiver are combined in NeoPhotonics C++ CFP2-DCO transceiver, which is the industry's first pluggable transceiver module able to deliver as much as 34 Terabits of capacity per fiber. This module can support 85 channels of 64 GBaud data at 75 GHz channel spacing and effectively increases the capacity of an optical fiber by as much as 50 percent over standard systems at comparable distances.

"We are pleased to add the HB-CDM to our suite of components for 64 GBaud coherent systems which are currently shipping in volume to multiple customers," said Tim Jenks, Chairman and CEO of NeoPhotonics. "The HB-CDM is based on our Indium Phosphide photonic integration platform and delivers the high performance for demanding applications. Combined with our Silicon Photonics integration platform we can provide customers with the optimized solutions to meet their network requirements for the highest speeds and at volume scale," 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.

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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, 2019 filed with the Securities and Exchange Commission.

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