

NeoPhotonics Announces Cumulative Shipments of 2 Million Ultra-Narrow Linewidth Lasers for Coherent Transmission Systems

NeoPhotonics Ultra-Pure Light Tunable Lasers Power the Highest Speed-Over-Distance Coherent Systems

SAN JOSE, Calif. — May 11, 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 that it has shipped a cumulative total of more than two million of its industry-leading ultra-narrow linewidth tunable lasers since initiating shipments in 2011.

Narrow Linewidth tunable lasers are key elements of coherent data transmission systems used in telecommunications and in data center interconnects for the cloud. They provide both the light that carries the transmitted data and a reference laser that is used to decode the data. As data rates increase to 400Gbps, 600Gbps and 800Gbps through the use of higher symbol rates and higher modulation orders, it becomes increasingly essential to have the purest possible laser light source that exhibits the lowest possible noise. NeoPhotonics ultra-pure light tunable lasers meet this essential requirement by having the [narrowest linewidth](#) in the industry, meaning the purest color, without noise or other distortion.

In order to maximize the data carrying capacity of optical fibers, NeoPhotonics provides these ultra-pure light tunable lasers with wider tuning ranges, which support more channels and ultimately increase total fiber capacity. For high baud rate, high capacity-per-wavelength systems, NeoPhotonics Ultra-Narrow Linewidth tunable lasers are also available in a [C++ LASER™](#) configuration, which has a tuning range of 6 THz and covers the full “Super C-band.” This is 50 percent more spectrum than a standard laser and supports 80 channels with [75 GHz per channel](#) spacing, achieving a total fiber capacity of 32 Terabits per second using 400Gbps transceivers in each channel. NeoPhotonics Ultra-Pure Light Tunable Lasers are also available in versions that cover the L-Band, essentially doubling fiber capacity.

NeoPhotonics began shipping Narrow Linewidth tunable lasers in 2011 in the Optical Internetworking Forum (OIF) standard ITLA form factor, which was approximately 3 inches long and approximately one inch wide. NeoPhotonics introduced its Micro-ITLA in 2014, which reduced the size by half, and in 2019 introduced the Nano-ITLA, again reducing the size approximately by half. In addition to its best-in-class low phase noise, the Nano-ITLA has low electrical power consumption, making it well suited for small form factor pluggable coherent modules. The Nano-ITLA is now featured in the NeoPhotonics 400ZR QSFP-DD module, which is a complete coherent transceiver capable of sending 400Gbps of data up to 1000 km, in a package size that is not very different from the original ITLA laser alone.

“We are pleased to have provided our customers over the last decade with both industry-leading performance and industry-leading volume, reaching [1 million cumulative shipments](#) in 2019 and now 2 million shipments just two years later,” said Tim Jenks, Chairman and CEO of NeoPhotonics. “As industry data rates have increased from 100Gbps to now 800Gbps, the low noise and low power consumption of our lasers have become increasingly important, and their unique qualities have opened up

completely new application areas such as satellite communications, remote sensing, automotive LIDAR and medical diagnostics,” 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

©2021 NeoPhotonics Corporation. All rights reserved. NeoPhotonics and the red dot logo are trademarks of NeoPhotonics Corporation. All other marks are the property of their respective owners.