

NeoPhotonics Announces General Availability of QSFP-DD and OSFP 400ZR Coherent Modules

Pluggable High Speed Coherent Modules Enable IP over DWDM in DCI and Metro-Regional Networks, Significantly Reducing Cost-per-bit

SAN JOSE, Calif. — June 8, 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 its QSFP-DD and OSFP [400ZR](#) pluggable modules are in General Availability and shipping to customers.

These products utilize NeoPhotonics Silicon Photonics Coherent Optical Subassembly (COSA) and low power consumption, ultra-narrow linewidth [Nano-ITLA](#) tunable laser, combined with the latest generation of 7 nm node DSP (digital signal processing) technology, to provide full 400ZR transmission in a standard data center QSFP-DD or OSFP form factor that can be plugged directly into switches and routers. This greatly simplifies and cost reduces data center interconnect (DCI) networks by enabling the elimination of a layer of network equipment and a set of short reach client-side transceivers, and paves the way for similar benefits in metro networks.

NeoPhotonics QSFP-DD and OSFP transceivers plug directly into the front panel of a switch or router to provision 400G connections over metro distances in a manner virtually the same as connections inside a single data center. These 400G modules are compliant with the OIF 400ZR Implementation Agreement and are interoperable with other manufacturers' 400ZR modules that utilize a standard forward error correction (FEC) encoder and decoder. These modules are capable of tuning to and transmitting within [75 GHz](#) or 100GHz spaced wavelength channels, as specified in the OIF agreement, and operate in 400ZR mode for Cloud DCI applications. For longer metro reaches, the modules are designed to support [400ZR+](#) modes.

NeoPhotonics QSFP-DD and OSFP modules have completed reliability qualification and have passed 2000 hours of High Temperature Operating Life (HTOL) as well as other critical tests per Telcordia requirements.

The company recently announced that it had used its QSFP-DD coherent pluggable transceiver to transmit at a 400 Gbps data rate over a distance of 800 km in a 75GHz-spaced DWDM system with more than 3.5 dB of OSNR margin in the optical signal while remaining within the power consumption envelope of the QSFP-DD module's power specification.

“This demonstration of high data rates over longer distances shows the potential of these game-changing products, and we expect to see increasing deployment of coherent pluggable modules with different use cases, from data center interconnect to metro and regional applications as well as 5G wireless backhaul,” said Tim Jenks, Chairman and CEO of NeoPhotonics. “Since the beginning of coherent transmission, NeoPhotonics has been at the forefront in meeting the volume needs of our customers, as is indicated by our recent announcement that we had shipped a cumulative total of more than [two million](#) ultra-narrow linewidth tunable lasers,” 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, product performance, product development, 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 the Company's Quarterly Report on Form 10-Q for the three month period 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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