NEWS RELEASE

Lumentum Showcases Enhanced Photonic Innovations for AI-Driven, Next-Generation Networks at ECOC 2024

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Demonstrates advanced 800G ZR+ transceivers and tunable SFP28 ER modules; shares insights on energy-efficient optics for scalable AI networks

San Jose, Calif., September 19, 2024 – Lumentum Holdings Inc. ("Lumentum"), a market-leading designer and manufacturer of innovative optical and photonic products, announced today its participation in the European Conference on Optical Communication (ECOC) 2024 in Frankfurt, Germany, from September 23 – 25. At Stand #A24, Lumentum will showcase its latest photonic solutions, reinforcing its commitment to powering the artificial intelligence (AI) revolution through unparalleled speed, scalability, and energy efficiency.

Advancing AI and High-Capacity Networks with Enhanced 800G ZR+ Transceivers

Lumentum will feature its recently enhanced 800G ZR+ coherent pluggable transceivers, optimized for extended reach and higher optical power applications, including expanded long-reach, high-capacity data center interconnect use cases driven by AI. Due to constraints in delivering electrical power for their expanding AI infrastructure, cloud operators increasingly need to interconnect geographically dispersed data centers, placing greater demands on optical network capabilities. The enhanced performance in Lumentum's 800G ZR+ transceivers stem from its hybrid photonic integrated circuits, which leverage Lumentum's in-house proprietary indium phosphide technology for superior transmission performance. Live demonstrations of 800ZR+ and 400G ZR+ transceivers will be conducted at ECOC, showcasing their high performance. Recognized in the 2024 Lightwave Innovation Review Awards, these transceivers have the flexibility to interface directly into routers and are designed to address rapidly-growing data traffic in data center interconnects and a wide range of other high-capacity applications across metro, regional, and long-haul networks.

Addressing Bandwidth Demands and Improved Network Connectivity with Tunable SFP28 ER Modules

Lumentum will also demonstrate its latest Tunable SFP28 ER module, a high-performance optical transceiver supporting 25 Gbps DWDM links over distances up to 40 km. Designed to perform in the more extreme industrial temperature range, this module supports the growing bandwidth demands of cable MSOs driven by DOCSIS 4.0 and FTTH deployments. It also enhances 5G transport network connectivity by offering a high-performance solution that leverages existing C-band fiber infrastructure.

Participation in OIF 800ZR, 400ZR+ and Multi-Span Optics Interop and CMIS Demos

In addition to its live demonstrations, Lumentum will participate in the Optical Internetworking Forum (OIF) interoperability demonstration at booth #B83. This showcase will feature Lumentum's 800ZR coherent

transceivers, highlighting advancements in 800ZR and 400ZR+ optics interoperability. The demo will include the first public 800ZR multi-vendor DSP interoperability, as well as OpenZR+, 100ZR, and OpenROADM/ITU-T, all operating over multiple, multi-span networks.
Lumentum will also demonstrate its OpenZR+ and 400ZR QSFP-DD transceivers in the Common Management Interface Specification (CMIS) demonstration, showcasing the benefits of supporting the CMIS standard across multiple applications. The CMIS standard has become essential for managing pluggable modules, providing a uniform method for monitoring, initialization, and control. Lumentum's OpenZR+ module will show how CMIS compliance allows a host to monitor status, control the optical channel, manage output power, and switch between 400G and 100G application modes.

Addressing Capacity and Efficiency Challenges in AI Networks

At ECOC, Lumentum will discuss how new optical solutions can improve energy efficiency in AI networks. Lumentum's Chief Technology Officer for Cloud and Networking, Matt Sysak, will deliver a presentation titled "Energy Efficient Optics for Sustainable Scaling of AI Networks" on Wednesday, September 25, from 11:00 am to 11:15 am CEST at the Market Focus Theater.

Drawing from Lumentum's recent whitepaper, the presentation will explore how the company's optical technologies can potentially slash network power consumption by up to 80%, resulting in savings of over 17 megawatts of power and a reduction of up to 10,000 metric tons of CO_2 emissions per AI training cycle.
In addition, Lumentum Senior Director of Product Line Management, Simon Warren, will participate in a workshop titled "When Could Multi-Band Systems Become More Cost-Effective Than Parallel C-Band Systems?" on Sunday, September 22, from 9:00 a.m. to 12:30 pm CEST in Harmonie 4. The workshop will explore the adoption of C+L band systems to manage growing traffic demands, potential saturation issues, and shifts toward wider bandwidth solutions like S+C+L systems, as well as the role of emerging fiber technologies in scaling networks.

For more information or to schedule a meeting at ECOC 2024, please contact customer.service@lumentum.com.

About Lumentum
Lumentum (NASDAQ: LITE) is a market-leading designer and manufacturer of innovative optical and photonic products enabling optical networking and laser applications worldwide. Lumentum optical components and subsystems are part of virtually every type of telecom, enterprise, and data center network. Lumentum lasers enable advanced manufacturing techniques and diverse applications, including next-generation 3D sensing capabilities. Lumentum is headquartered in San Jose, California, with R&D, manufacturing, and sales offices worldwide. For more information, visit www.lumentum.com and follow Lumentum on LinkedIn, X, Facebook, Instagram, and YouTube.

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About OIF
OIF Champions Interoperability at ECOC 2024: 34 Member Companies to Showcase Solutions for Data Centers, AI/ML Technologies and Disaggregated Systems. At ECOC 2024, OIF will host a dynamic interoperability demo with 34 member companies, showcasing solutions that enhance performance, efficiency and capacity for future data centers, AI/ML and disaggregated systems. Discover cutting-edge interoperability in 800ZR, 400ZR, multi-span optics, energy efficient interfaces, co-packaging, 224G and 112G common electrical I/O and CMIS. Visit booth #B83 for live demos. More details at: https://www.oiforum.com/meetings-events/oif-ecoc-2024.