

Infinera Validates Intelligent Transport Network Portfolio over Lumentum White Box Optical Line System

Sunnyvale, Calif. and Milpitas, Calif. – Aug. 17, 2016 – Infinera, a provider of [Intelligent Transport Networks](#), and Lumentum Holdings Inc. (Lumentum), a [provider of innovative photonic products](#) for cloud and networking applications, have successfully validated Infinera's portfolio of dense wavelength division multiplexing (DWDM) platforms over Lumentum's white box optical line system. Infinera now offers customers an open optical networking solution validated by interoperability testing between Lumentum's white box optical line system and Infinera's Intelligent Transport Networks.

The joint solution supports an ecosystem that enables open networks for data center interconnect (DCI) and metro/edge WDM transport. This announcement by Infinera and Lumentum marks the first multi-vendor driven demonstration of, and commitment to supporting, an open, interoperable and agile approach to the construction of transport networks. The combined power of Infinera's photonic integrated circuit (PIC) based platforms and Lumentum's white box line system offers network operators a scalable, programmable, and automated solution for provisioning bandwidth using open standardized interfaces.

Infinera and Lumentum are collaborating on open packet optical transport in the [Telecom Infra Project \(TIP\)](#), an industry initiative co-founded by Facebook. TIP consists of multiple operators, infrastructure providers, system integrators, and others collaborating to develop new technologies and approaches to deploy the telecom network infrastructure.

“By validating the industry's first white box open line system interoperability with Lumentum, Infinera has demonstrated our commitment to delivering the innovative and open optical solutions that our customers need,” said Tom Fallon, Infinera CEO. “Infinera's leadership in technology innovation with large-scale photonic integration is changing telecom networks. This announcement is yet another step in the path to delivering on our vision of enabling an infinite pool of intelligent bandwidth that the next communications infrastructure is built upon.”

“Lumentum's award-winning optical white boxes are designed for simplicity and scalability, with open interfaces to enable Software Defined Networking (SDN),” said Alan Lowe, Lumentum CEO. “The demonstration of successful interoperability with Infinera validates the open system approach that should deliver the simplicity and service innovation many network operators desire.”

The extensive interoperability testing included Infinera's XTM Series, Cloud Xpress Family and DTN-X Family (including XTC and XT Series) platforms. In addition, the companies successfully conducted interoperability testing of Infinera's next generation Infinite Capacity Engine pilot hardware. The Infinera platforms interoperated with the Lumentum white box open line system including the 20 port Transport ROADM. The test cases covered point-to-point metro fiber links carrying multiple modulations including QPSK (quadrature phase shift keying), 8QAM (quadrature amplitude modulation) and 16QAM with PIC based super-channels over the Lumentum open line system. The test was able to fill the fiber to full capacity at QPSK, 8QAM and 16QAM data rates via 19 super-channels injected into a single rack unit 20 port ROADM. A fully loaded solution achieves up to 24 terabits of fiber capacity using the Infinite Capacity Engine at 16QAM. The testing successfully validated standard optical parameters including optical signal to noise ratio (OSNR) for seamless performance over metro distances.



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About Lumentum

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

About Infinera

Infinera (NASDAQ: INFN) provides Intelligent Transport Networks, enabling carriers, cloud operators, governments and enterprises to scale network bandwidth, accelerate service innovation and simplify optical network operations. Infinera's end-to-end packet-optical portfolio is designed for long-haul, subsea, data center interconnect and metro applications. Infinera's unique large scale photonic integrated circuits enable innovative optical networking solutions for the most demanding networks. To learn more about Infinera visit www.infinera.com, follow us on Twitter @Infinera and read our latest blog posts at blog.infinera.com.

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