



Luxtera Ships One Millionth Silicon Photonic Transceiver Product

Global Market Leader Crosses 1M Milestone as ECOC 2016 Kicks Off

Düsseldorf, Germany and Carlsbad, California – [ECOC 2016](#) – September 19, 2016 – Luxtera, Inc., the global leader in silicon photonics, today announced that the company has shipped more than one million Silicon Photonic Parallel Single Mode fiber 4-lane (PSM4) transceiver products. Its patented technology blends long reach capabilities of single mode fiber with low cost transceivers. This combination is critical for the cost effective scaling of cloud computing data centers.

“This is a huge milestone for the optics industry and an exciting achievement for Luxtera,” said Greg Young, President and CEO of Luxtera. “With over 1 million units deployed, sweeping design wins, and 100Gbps PSM4 shipping in 100K+ volumes, it is clear that our products are at the center of the industry’s \$5 billion optical super cycle. Passing this milestone signals that our customers have embraced our vision, including volume orders for solutions that offer long reach and low cost with best in class performance.”

A critical component of driving cost effective optics inside the data center was the introduction of Parallel Single Mode (PSM) fiber optic solutions. Luxtera was the first to recognize this application and has led the standardization efforts to allow multivendor interoperability of PSM4. Luxtera was a founding member and drafter of the 100G-PSM4 Multi Supplier Agreement (MSA) in 2014, the first standard to enable silicon photonics interoperability with legacy DML Optical modules for PSM4 fiber without compromising the cost benefits of silicon photonics. This widely accepted MSA has the support of dozens of companies with PSM4 product offerings and is being deployed at scale by the major cloud computing operators. Luxtera has continued to drive further adoption of PSM4 for higher data rates, and has been standardized in IEEE 802.3bs, 200GBase-DR4 and 400GBase-DR4 specifications, creating a seamless migration path to 400G.

Each Luxtera 100G PSM4 optical transceiver product includes four independently operating transmitter and receiver channels, integrating high-speed phase modulators, photodetectors, waveguides, grating couplers, high-speed electrical retimers, and integrated control circuitry, powered by a single integrated laser. These components combine into a fully integrated silicon photonics chipset or PSM4 optical engine with no additional external elements required. Luxtera has now shipped over 1 million PSM4 transceiver products and has a broad and growing customer base including major cloud datacenter operators, system OEMs, HPC operators, and many additional users.

As part of a global tour to mark the 1M achievement, Luxtera’s Vice President of Engineering Peter De Dobbelaere, PhD, will be presenting on datacenter photonics at the 4th Optical Interconnect in Data Centers EU-Symposium during the European Conference on Optical Communications (ECOC) in Düsseldorf, Germany this week.



Quotes:

Bill Gartner, Vice President & General Manager, Cisco

“Cisco is always looking for the best possible optics for use in its systems, and silicon photonics has long been seen as a critical element for 100G systems. Luxtera’s 100G-PSM4 products complement Cisco’s focus on delivering high density 100G solutions offering disruptive opportunities for our customers.”

Lars Frank, Vice President, Program Management, DU Network Functions and Cloud, Ericsson

“With the growing demands of the hyperscale datacenter, Ericsson has seen single mode optics become an increasingly critical part of the system network and PSM4 is a critical element in the design of the HDS8000 optical interconnect. As data rates and reaches have increased, the limitations of contemporary optics have become more apparent, forcing end users to choose between low cost and long reach, placing hard constraints on datacenter architects. Luxtera’s 100G-PSM4 silicon photonics solutions change this paradigm, by allowing long reach and low cost with best in class performance.”

Dr. Vladimir Kozlov, CEO and founder of LightCounting Market Research

“It is great to see Luxtera’s success. Demand for 40GbE and 100GbE optics is very strong in 2016, but the market remains highly competitive. Luxtera’s latest achievement is not only a result of 15 years of R&D in Silicon Photonics, but it is also a validation of the operational excellence of Luxtera’s team.”

About Luxtera

Luxtera, Inc. is the world leader in silicon photonics. Silicon photonics refers to the use of a standard semiconductor wafer foundry to produce optical-electrical transceivers products which can move large amounts of data at high speeds and over long distances. Headquartered in Carlsbad, California, Luxtera was founded in 2001 and is led by a team of industry-renowned researchers and seasoned executives drawn from the communications and semiconductor industries. Luxtera is backed with investment from NEA, August Capital, Sevin Rosen Funds, Lux Capital, and Industry Ventures. The company also has received significant strategic investment and project funding from some of the most successful corporate players in the networking, computing, and semiconductor industries. The company has invested over \$250 million in silicon photonics R&D. Luxtera has over 197 worldwide patent filing, including 127 issued US patents covering fundamental aspects of silicon photonics core technologies, system design, integration, and package assembly. Luxtera has one of the industry’s strongest IP portfolios. www.luxtera.com.

Media Contact

Kevin Phelan
kevin@phelanpr.com
(617) 515-8011