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Inphi Corporation Launches Industry's First 25 Gbps Differential Mach-Zehnder Modulator Driver

The 2514DZ is the newest member of Inphi's industry-leading PhyOptik™ product family.

WESTLAKE VILLAGE, Calif., January 22, 2008 – Inphi® Corporation (www.inphi-corp.com), the world leader in analog performance and signal integrity, today announced the 2514DZ, the industry's first 25 Gbps Differential Mach-Zehnder Modulator Driver. This product is the first to deliver large differential output voltage and the high data rates required for next-generation 40G Differential Quadrature Phase Shift Keying (DQPSK) and 100G optical communications applications. The 2514DZ, with a differential output voltage up to 8.0 Vpp and data rates greater than 25 Gbps, works seamlessly with leading differential Mach Zehnder modulators from Fujitsu and Sumitomo Osaka Cement Company (SOCC).

“The 2514DZ leverages Inphi's excellence in analog performance, signal integrity and design innovation to deliver the best in class Differential Mach-Zehnder Modulator Driver in the market,” said Loi Nguyen, co-founder and vice president of technology for Inphi Corporation. “Design teams racing to deploy ultra-high capacity optical networks rely on Inphi's technology leadership to accelerate high performance products to market.”

As the transmission line rate increases from 10 Gbps to 40 Gbps, significant fiber impairments limit how far the signal can be transmitted before regeneration. For standard Non-Return-to-Zero (NRZ) transmission method, these impairments limit the transmission distance to a few kilometers. Differential Quadrature Phase Shift Keying (DQPSK) is emerging as one of the most powerful transmission methods for 40G applications.

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Unlike the NRZ transmission method that transmits one bit of data per symbol, DQPSK encodes two bits of data per symbol, which effectively cuts the transmission line rate in half. Thus 40G DQPSK systems are less sensitive to fiber impairments than other transmission methods at the native 40 Gbps line rate and can transmit 40 Gbps data well over 1,000 kilometers.

Future 100 Gbps systems may rely on even more sophisticated coding schemes to encode 4 bits of data per symbol so that 100 Gbps data can be transmitted at a line rate of approximately 25 Gbps. Inphi's 2514DZ has been demonstrated to work beyond the minimum specification of 25 Gbps and is now being used by leading module and OEM customers worldwide in the development of such a system.

Price and Availability

The 2514DZ is now available as engineering samples. Additional information may be found at www.inphi-corp.com/product-overview/optical-pmd/drivers/2514dz.php.

About Inphi Corporation

Inphi Corporation designs and develops integrated circuits that consistently deliver the industry's highest performance and best signal integrity for processing high-speed digital data in computing and communications systems. The company is a leading supplier of memory interface logic, optical components and high-speed logic that deliver the world's highest performance as measured by signal integrity. Leading corporations rely on Inphi for components that transport, store, deliver, and test high-speed data for the world's most innovative high-performance communications and computing systems. Inphi is recognized as a global technology leader for its innovative designs, dedication to the development of open standards, and excellence in R&D. Learn more about Inphi Corporation by visiting www.inphi-corp.com.

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