



WORLD'S FASTEST LEDs UNVEILED AS QEOS™ LAUNCHES FIRST COMMERCIAL COMMUNICATIONS PHOTONICS PRODUCTS BASED ON REVOLUTIONARY HIGH SPEED LIGHT-EMITTING TECHNOLOGY

QEOS Tilted Charge Dynamics™ Light-Emitting Technology Drives Lower Cost, Lower Power Consumption and Smaller Size Components

CUPTERTINO, Calif., April 11, 2013 – Quantum Electro Opto Systems Sdn. Bhd. (QEOS), a leading optical innovations company for the design and high-volume production of multi-Gb/s optical communications products, today announced the launch of its first commercially available OEM/ODM products based upon its patented “QEOS Tilted Charge Dynamics” high speed technology. The QEOS Tilted Charge Dynamics technology forms the core technology for its new high speed “LEDs”.

The technology enables the company to develop products of lower total power consumption, smaller size, and lower cost compared to traditional multi-gigabit short distance optical transmission products. “It’s incredible to realize this technology features the world’s fastest LED, it’s 10 times faster than the traditional LEDs in the market,” said Dr. Gabriel Walter, CEO at QEOS Sdn. Bhd. “And the products we’re introducing are a fraction of the size, power, and cost of traditional laser-based products with the comparable functionality. With the transistor structure, various new integrated optical and electronic functions can be realized that are not possible with the existing optical technology”.

PRODUCT INTRODUCTION

Bringing its Tilted Charge Dynamics technology to market for the first time, the company introduced its QEOS Optical Transceiver Kit™, which consists of the new QEOS Transmitter Optical Full Assembly™ (TOFA) designed to operate with the new QEOS Receiver Optical Full Assembly (ROFA). The kit provides a low power, low cost product-ready 3.5Gbps solution for distances up to 100 meters.

Also introduced was a higher speed QEOS TOFA, an ultra-low power consumption, high speed optical transmitter operating up to 6.5GHz (designed for 10Gbps applications) and available later this year.

All QEOS TOFAs and ROFAs are “full-function” assemblies. The QEOS Titled Charge Dynamics high-speed technology-enabled products, with their lower cost and power consumption, can be used for active optical cables, interconnecting computers, board-to-board interconnects and in power sensitive portable applications.



(left) The QEOS Transmitter Optical Full Assembly™ (TOFA). (right) Size comparison between a current optical transmitter solution and the QEOS TOFA

“This technology can be used to support a range of transmission interfaces such as USB, HDMI, Ethernet, Thunderbolt, Infiniband, and also communications within portable devices,” said Raymond Chin, Chairman of QEOS Sdn. Bhd. “Our lower power consumption and lower cost products open up the market for new and expanded use of optical communications in data centers, and for industrial, commercial and residential optical connectivity.”

The QEOS Optical Transceiver Kit will soon be available for sampling, and the higher speed QEOS TOFA will be available later this year. For more information including press assets and resources, visit the website at: www.qeosystems.com

About Quantum Electro Opto Systems Sdn. Bhd. (QEOS)

Founded in 2008 by Dr. Gabriel Walter, CEO, and Professors Nick Holonyak, Jr. and Milton Feng, inventors of the Tilted Charge Light Emitting Transistor at the University of Illinois, QEOS is a leading optical innovations company that has developed breakthrough QEOS Tilted Charge Dynamics™ light emitting technology. QEOS products expand the use of optical for multimedia, audio/video, and IT applications in the consumer, residential and commercial markets.

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