



**For Immediate Release**

**10X10 MSA Releases 10Km and 40Km 100Gbps Standards**

*Unmatched Low Cost, Low Power Benefits Expand MSA Into New Applications*

SAN FRANCISCO--(BUSINESS WIRE)—The 10x10 MSA, a robust ecosystem of organizations creating 100Gbps solutions, today announced the public availability of 10Km and 40Km specifications to expand into new applications. Having garnered strong support and growing commitments through multiple deployments around the world, the MSA was compelled to develop a new common specification for longer reach applications to help mitigate development risk and eliminate the need for custom or proprietary solutions, while also reducing both development and manufacturing cost.

The 10Km reach specification builds on already existing 2Km specifications to ensure backward compatibility and interoperability with the existing 10X10-2Km standard. This helps service providers extend data center networks to campus networks and beyond. The 40Km specification leverages existing 10Gbps DWDM network specifications to enable seamless upgrade of existing 10Gbps metro links to 100Gbps over up to 40Km single-mode fiber without the need for regeneration or amplification.

“We are very pleased with the widespread adoption of 10X10 optical modules. The new 10X10-40Km standard enables up to 800 Gbps of data to transmit over a single fiber – that’s the speed the industry needs.” – Scott Kipp, Chair of 10X10 MSA and Senior Technologist at Brocade.

“Optical modules based on the 10X10 standards have become the most popular single-mode 100Gbps optics. We have now reached another milestone which demonstrates that the 10X10 MSA specifications can easily scale to enable low cost, power efficient 100Gbps networks scalable from data center networks to metro networks,” said Milind Gokhale, CTO of Santur. “Having a large ecosystem of component suppliers and network equipment suppliers has enabled service providers to deliver a smart and easy way to expand their networks and deliver the benefits of 100Gbps networking.”



“The addition of 10x10-40km to the 10x10 MSA provides a cost effective solution scalable to 100GbE aggregation and metro applications, and the specified band-WDM option provides low cost solution for combining multiple 100GbE traffic in a single fiber”, said Rang-Chen Yu, Vice President of Business Development of Oplink. “As an active participant of the MSA, Oplink is pleased to contribute to the 10x10 40km specification and looks forward to continue providing cost-efficient innovative product solutions to meet the customer demand”.

"CyOptics is pleased to work with the 10x10G MSA members to develop low cost 100 Gigabit Ethernet specifications that now address 100Gbps networking applications up to 40km reach ", said Stefan Rochus, CyOptics' VP of Marketing and Business Development. "The 10x10G-40km reach implementation of 10 wavelength channels on a 100GHz DWDM grid allows cost effective future upgrades to 4x100G or even 8x100G over a single fiber to meet the increasing bandwidth demand in metro networks. CyOptics will make the DWDM TOSA and ROSA components commercially available leveraging our in-house laser, detector and Silica PLC device technologies, and our automated hybrid integration and packaging platforms."

### **About the 10X10 MSA**

Founded in December 2010, the 10X10 MSA is an industry group of 25 companies dedicated to technology and standards development for low cost 100Gbps client interfaces based on 10G signaling. The 10X10 MSA has established an open framework for the industry including all stakeholders of the ecosystem, The members include Google, Brocade (NASDAQ: BRCD), Santur, JDSU (NASDAQ: JDSU), Huawei, Facebook, BTI Systems, AMS-IX, MRV, EXFO, Enablence, CyOptics, AFOP, Oplink (NASDAQ:OPLK), Hitachi Cable America, Kotura, Efdon, Source Photonics, Verdant Networks, Kaiam, Innolight, Fourte Design, Viscore, Maxim and Cortina Systems. For more information about the MSA, please visit [www.10X10msa.org](http://www.10X10msa.org). Other users and developers who are interested in joining the 10X10 MSA are encouraged to contact MSA members at [info@10x10msa.org](mailto:info@10x10msa.org).