

ETHERNET ALLIANCE INTEROPERABILITY DEMO SHOWCASES HIGH-SPEED CLOUD CONNECTIONS

FEBRUARY 28, 2012, LOS ANGELES, CA – In one of the largest interoperability demonstrations at OFC/NFOEC 2012, the [Ethernet Alliance](#) (Booth 724) is showcasing cost-effective, high-speed connectivity to the cloud via interoperable 10-, 40-, and 100 Gigabit Ethernet (GbE) optical connections. Because Ethernet equipment suppliers and service providers are the largest consumers of optics, the Ethernet Alliance demonstration focuses on how the Ethernet ecosystem uses optics and how businesses are implementing 10-, 40-, and 100GbE optics in their networks.

The Ethernet Alliance and 10 member companies are demonstrating a variety of high-speed Ethernet technologies illustrating how 10GbE servers are driving the need for 40GbE and 100GbE uplinks within the data center environment and to cloud service providers. The demonstration creates a simulated cloud computing environment between two “data centers.” One data center is connecting a 100GbE lambda across an Optical Transport Network (OTN), while the second data center is connecting via four 10GbE links.

“When deploying cloud environments, end-users face a range of link rates from GbE to 100GbE when they apply Ethernet at the server, aggregation, core, and metropolitan layer,” said Scott Kipp, president, Ethernet Alliance. “The Ethernet Alliance multi-vendor interoperability demonstration highlights various Ethernet optical and copper solutions that can be used, and highlights advancements in technology for deployment today. One such example of an advancement in optical technology to be demonstrated is 25 gigabit per second directly modulated lasers (DML), which are key for the next generation of 100GBASE-LR4 module implementations. This new generation of optics is lowering the cost barriers for deploying 100GbE networks.”

The Ethernet Alliance member companies participating in the interoperability demonstration include Amphenol Corporation (NYSE: APH), Brocade (NASDAQ: BRCD), Cisco Systems (NASDAQ: CSCO), Dell Force 10 (NASDAQ: DELL), Finisar (NASDAQ: FNSR), Ixia (NASDAQ: XXIA), JDS Uniphase Corporation (NASDAQ: JDSU), Spirent Communications (LSE: SPT), TE Connectivity (NYSE: TEL) and Volex (LSE: VLX).

"Finisar is excited to participate in the Ethernet Alliance interoperability demonstration with our high-performance 40GBASE-SR4 QSFP and 100GBASE-LR4 CFP optical modules. These IEEE-compliant transceiver modules are playing a key role in the deployment of new 40- and 100GbE routers and switches required to meet the large increases in bandwidth demand." – Christian Urricariet, director of marketing, high-speed optics, Finisar

"Cloud computing, increased media-rich traffic, and dynamic packet-switched core transport networks will exponentially drive the demand for higher-speed Ethernet links over the next several years. Ixia continues to support the Ethernet Alliance and its members to by validating the interoperability of HSE with ITU G.709 OTN, over data center interconnects, and up to 100GbE transport speeds – while running complex services." – Michael Githens, lab program manager, Ixia, and technical lead, Ethernet Alliance interop demonstration

"JDSU is proud to support the Ethernet Alliance's efforts of promoting next generation technologies for cloud computing. JDSU is showcasing two recently launched products – the T-BERD/MTS-8000 40/100G Transport Module, the most compact test solution in the market for both 40GbE and 100GbE, and the Xgig 40G Ethernet analyzer, a unique test solution for capturing 40GbE line rate traffic and characterizing networking performance." – Assaji Aluwihare, director, communications test and measurement business segment, JDSU

"Spirent is pleased to partner with the Ethernet Alliance to demonstrate high-speed connectivity from the data center to the cloud. This demonstration is an opportunity to showcase Spirent's ability to validate the performance of high-speed Ethernet based data center and cloud computing environments with realism and at scale." – Jurrie van den Brekel, director of product marketing, Spirent Communications

"TE is excited to be part of the Ethernet Alliance demonstration at OFC/NFOC 2012. As a principal member of the Ethernet Alliance, we support its efforts to promote next-generation Ethernet standards and are committed to meeting our industry's needs through our innovative high-speed technologies in fiber as well as copper cabling. Through participation in the Ethernet Alliance demonstrations, TE will showcase a complete solution set of optical modules, active optical cables as well as passive fiber and data center infrastructure supporting 10-, 40-, and 100GbE speeds." – Nathan Tracy, business development manager, communications industry, TE Connectivity

"Volex is pleased to support the Ethernet Alliance's exhibit booth and demo at this year's OFA/NFOEC conference. We are providing high speed optical and copper cabling that support 40/100GbE links as well as powercords for active equipment in the demo. We are supporting new Ethernet interconnects like 100GBaseSR4 and 100GBaseCR4. Our Ethernet solutions include external optical and copper hydra fanout assemblies and internal optical and copper dataplane assemblies. Volex supports Ethernet implementations in DataCenter, Central Office, Industrial, and Medical applications." – Ed Cady, business development director, Volex