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Media Contact:
media@chelsio.com
Chelsio Communications
408-962-3600

CHELSIO DEMONSTRATES 40GbE iSCSI; RELEASES NEW ADAPTERS

SUNNYVALE, CA – October 1, 2013 – Chelsio Communications, a leading provider of high performance Ethernet solutions, today announced that is releasing to production 3 new PCI Express 3.0 Ethernet adapters, based on Chelsio's Terminator 5 ASIC and optimized for cloud computing, HPC, virtualization, storage, and other data center applications. The new adapters are high performance drop-in replacements for any FibreChannel or InfiniBand interfaces.

- T522-CR: a dual 1/10Gb port (SFP+) plus dual 1Gb port (RJ-45) low profile Unified Wire adapter that provides 22Gb of full-duplex bandwidth, and allows OEMs the flexibility of fielding products at both 1Gb and 10Gb via the same qualification effort.
- T540-CR: a quad10Gbport (SFP+)Ethernet Unified Wire adapter that provides aggregate 40Gbps full duplex performance for iSCSI, FCoE, TCP/IP, UDP/IP and RDMA applications. This adapter allows line rate 40Gb full-duplex operation over four standard 10GbE switch ports, using generic twin-ax or optical cables.
- T580-CR: a dual40Gb port (QSFP)Ethernet Unified Wire adapter, optimized for iSCSI, TOE, and storage applications. The T580-CR provides maximum full duplex performance for iSCSI, FCoE, TCP/IP, UDP/IP and RDMA users.

Chelsio's high performance storage adapters enable a converged, traffic managed interconnect solution that simultaneously supports a complete suite of networking and storage protocols. The Chelsio adapters are the only ones capable of true 40Gb line rate

operation for the iSCSI protocol, while reducing CPU utilization to enable building high performance, yet cost effective storage solutions. In addition, T5 introduces T10-DIX support for iSCSI as well as advanced internal data integrity protection capabilities, making it ideal for mission critical applications.

Chelsio demonstrated the industry's first 40Gb line rate operation of offloaded iSCSI protocol with CRC Digest protection enabled, using a single Chelsio T5-based 40GbE Unified Wire adapter at the Storage Developer Conference in Santa Clara, CA.

"The high performance benefits of Flash storage can be unrealized through the use of inefficient networking" said Saqib Jang, of Margalla Communications. "Chelsio's T5 with iSCSI offload enables consistent high-throughput, low-latency access to Flash storage for virtualized applications."

 "With the introduction of T5, Chelsio has now raised the performance bar for SAN technology past anything possible with Fibre Channel, now or in the foreseeable future," said Kianoosh Naghshineh, president and CEO of Chelsio. "Combined with a comprehensive set of offload capabilities, such as RDMA, TOE, FCoE, and T10-DIX, T5 provides a complete solution for today's high performance storage appliances."

Availability and Pricing
The T5 adapters are available now from Chelsio's distributors with standard lead times. T522-CR is list priced at $980, T540-CR is list priced at $995, and T580-CR is list priced at $1450. All software is available for download at no additional licensing fees.

iSCSI Demonstration
The demonstration at Storage Developer Conference aggregated traffic from several iSCSI initiator systems running at 10Gb to one server running a 40Gb iSCSI target. The data was

transferred at 40Gb line rate with iSCSI CRC data integrity protection enabled. A detailed report can be found at: http://www.chelsio.com/wp-content/uploads/2013/09/T5_iSCSI_Brief.pdf

Chelsio Unified Wire Adapters

Ideal for all data, storage and high performance clustering applications, Chelsio Unified Wire adapters enable a unified fabric over a single wire by simultaneously running all unmodified IP sockets, FibreChannel and InfiniBand applications over Ethernet at line rate. Designed for deployment in virtualized data centers, cloud service installations and high performance computing environments, Chelsio adapters bring a new level of performance metrics and functional capabilities to the networking space.

About Chelsio Communications, Inc.

Chelsio is a leading technology company focused on solving high performance networking and storage challenges for virtualized enterprise data centers, cloud service installations, and cluster computing environments. Now shipping its fifth generation protocol acceleration technology, Chelsio is delivering hardware and software solutions including Unified Wire Ethernet network adapter cards, unified storage software, high performance storage gateways, unified management software, bypass cards, and other solutions focused on specialized applications. Visit the company at www.chelsio.com.

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