CHELSIO AND FADU FURTHER EXPANSIVE FLASH-OPTIMIZED STORAGE CONNECTICITY, EMPOWERING HIGH-ROI, HIGHLY EFFICIENT APPLICATION DEPLOYMENTS

Demonstrate Distinct Flash-Optimized Solutions for 100 Gigabit Ethernet (100GbE) NVMe/TCP, NVMe-OF, and iSCSI

SUNNVALE, CA/DALLAS, TX – November 17, 2022 – Chelsio Communications, Inc., a leading provider of high performance (1/10/25/40/50/100/200/400Gb) Ethernet Unified Wire Adapters and ASICs for storage networking, virtualized enterprise datacenters, cloud service installations, and cluster computing environments and FADU Technology, a developer of innovative high-end SSD controllers and solutions targeting hyperscale data center and server/storage systems, today announced a set of storage demonstrations and performance benchmark results which showcase how hyperscale customers can optimize application performance and return-on investment (ROI) using NVMe/TCP, NVMe-oF and iSCSI technologies at the Supercomputing 2022 conference, which will be on November 13-18, 2022.

"Organizations modernizing their business with AI and HPC need performance, flexibility and choice as they architect their infrastructure," stated Kianoosh Naghshineh, CEO at Chelsio Communications. "HPC storage using Chelsio solutions eliminates the lengthy delays and lost output typically related to legacy offerings and with optimal storage utilization, end-users can redefine traditional HPC workflows to innovate faster and validate disruptive ideas in the most cost-effective manner."

"Through our relationship with Chelsio, we share a strong commitment to storage technology innovation," said Jiyho Lee, CEO of FADU. "The demonstration of our NVMe SSD Ethernet

storage solutions is built on our collaborative vision to help our HPC customers achieve higher performance, lower cost and lower power consumption."
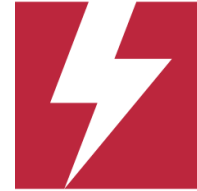
"A key challenge of deploying distributed AI at scale is storage performance, both raw bandwidth and IOPS," said Greg Schulz, Sr. Analyst StorageIO. "Chelsio Unified Wire technology seems very promising in delivering the storage performance needed for large-scale, distributed AI and data science environments."

At the Supercomputing 2022 conference in Dallas, Texas during November 14-17, Chelsio and FADU will demonstrate the following technologies that illustrate how T6 solutions offering high-speed Ethernet storage networking complement modern application and storage architectures:

- NVMe/TCP with Chelsio TOE for highly efficient, low-latency access to FADU NVMe SSD storage.
- NVMe Over Fabrics (RDMA)-based network access to FADU NVMe SSD storage for industry leading high-performance and low latency.
- iSCSI Protocol Offload-based access to FADU NVMe flash storage with extremely high throughput and IOPs.

Chelsio T7 DPU

The new Chelsio 7th generation T7 Unified Wire DPU product family is architected to support and accelerate a wide range of networking, storage and security workloads supported by modern enterprise and cloud datacenter applications. By combining four times the bandwidth compared to previous generations of Unified Wire and low-power compute with industry-leading seventh-generation data-path acceleration, the Chelsio T7 DPU family provides a significant ROI benefit through addressing inefficiencies due to overprovisioning of data center compute, networking, and storage resources.

The T7 DPU supports all the host software of its predecessors, T5 & T6, as-is, thus enabling customers to leverage all prior software investment. It also supports all the features of T5 & T6, and, in addition, adds hardware-based acceleration for RoCEv2, compression, dedupe, erasure coding, root of trust, as well as a variety of other features.

T7 DPU Availability

T7 DPU ASICs and the first two adapter SKUs will be in production in 1Q23. T7 DPU emulation platforms for software development are available to early access customers now. T7 reference design kit is also available now. Please contact Chelsio for more information.

Additional Resources

[100G JBOF using Chelsio Offloads Video](#)

[100G JBOF using Chelsio Offloads Technical Brief](#)

[T7 Product Brief](#)

About Chelsio Communications

Chelsio is a recognized leader in high performance (1/10/25/40/50/100/200/400Gb) Ethernet adapters for networking and storage within virtualized enterprise datacenters, public and private hyperscale clouds, and cluster computing environments. With a clear emphasis on performance and delivering the only robust offload solution, as opposed to simple speeds and feeds, Chelsio has set itself apart from the competition. The Chelsio Unified Wire fully offloads all protocol traffic, providing no-compromise performance with high packet processing capacity, sub-microsecond hardware latency and high bandwidth. Visit the company at www.chelsio.com and follow the company on [Twitter](#) and [Facebook](#).

About FADU Technology

FADU Technology is a fabless storage solutions company developing advanced flash storage technology to meet the explosively increasing data storage demands placed on hyperscale,

enterprise, and cloud data centers. Our innovative SSD solutions are based on industry-standard specifications, designed with FADU's proprietary Flash Memory Controller architecture, and compatibility with multiple industry NAND suppliers. FADU's storage designs address all aspects of Flash-based storage – very-low power, ultra-high performance, rich feature sets, solid reliability, and superior QoS. The company believes that other solutions with legacy ties to the past cannot meet the performance and power requirements to support real-time, cloud-based, connected applications. FADU's global team of seasoned storage architects, ASIC experts, and SSD engineers is charting the course for the industry.

Visit FADU at www.fadu.io and follow FADU on LinkedIn and Twitter.

###