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## **CHELSIO ANNOUNCES BROAD SAMPLING OF T7 DPU PLATFORM**

**Next-Generation DPU Delivers High-Performance Offloads for Storage, Security, and AI  
at 400G**

**Sunnyvale, CA – August 4, 2025** – Chelsio Communications, Inc., a leading provider of high-performance (1/10/25/40/50/100/200/400Gb) Ethernet Unified Wire ASICs and Adapters for storage networking, virtualized enterprise data centers, cloud infrastructure, and embedded or clustered computing environments, today announced the broad sampling availability of its T7 Data Processing Unit (DPU). After a year of early-access deployments with select customers in AI, storage, and cloud markets, Chelsio is now making T7 silicon more broadly accessible. This release incorporates customer-driven enhancements and architectural innovations designed to meet the growing demand for Ethernet-based acceleration in high-performance infrastructure. Purpose-built for high-throughput, low-latency networking, the T7 enables line-rate offloads up to 400GbE, with comprehensive support for data security, integrity, and scalable storage design.

“T7 is the first DPU-class solution from Chelsio, engineered from the ground up to handle modern offload requirements in AI, storage, and security environments,” said Kianoosh Naghshineh, CEO of Chelsio Communications. “This broader sampling release represents the maturity of our platform and the result of deep collaboration with early adopters who demanded open, efficient Ethernet-based solutions.”

## **T7 Highlights**

- Full hardware offload for NVMe/TCP, NVMe-oF (iWARP and RoCEv2), and iSCSI, enabling ultra-low-latency JBOF and all-flash storage deployments
- In-line support for IPsec, TLS, kTLS, QUIC, traffic filtering, and advanced packet classification to secure data-in-motion
- Controller Memory Buffer (CMB) and advanced NVMe features for latency-sensitive applications and low-overhead data movement
- Hardware-based end-to-end data integrity protection
- Sustained 400GbE line-rate offload across diverse storage, networking, and security workloads
- Integrated hardware engines for compression, deduplication, RSA, RAID 5/6, Erasure Coding, and PMoF (Persistent Memory over Fabrics). Drivers for these capabilities will be available soon.
- Built-in PCIe switch functionality for adapter or host mode
- Native FPGA integration interface for highly customizable acceleration
- Flexible architecture capable of hosting multiple adapters—or acting as a hosted endpoint by upstream CPUs

## **Platform Flexibility**

The T7 DPU platform is available in two ASIC variants, optimized for different deployment needs:

- **T7:** Full-featured DPU silicon for storage appliances, security platforms, and AI networking
- **S7:** A cost-optimized, DRAM-less variant designed for high-volume cloud and server environments, ideal for migrating hardware offloads from appliances to disaggregated cloud infrastructure



The T7 platform introduces novel data paths to unify switch, FPGA, and compute functions, enabling purpose-built acceleration pipelines tailored to customer workloads. By offloading infrastructure tasks traditionally managed by general-purpose CPUs, the T7 paves the way for efficient, scalable architectures in next-generation AI, storage, and edge environments.

The Chelsio offload model has been refined over multiple generations of silicon, enabling the T7 to run all prior-generation software (T4, T5, and T6) without modification. This software continuity ensures investment protection and seamless migration to faster Ethernet and PCIe speeds with future T7 silicon.

## **Industry Recognition**

Chelsio recently sponsored an IDC Analyst Brief titled *“DPUs Enable Secure, Flexible, and Efficient Semiconductor Solutions in the Datacenter and at the Heavy Edge.”* The report highlights how DPUs, such as T7, are transforming data center architectures by offloading infrastructure workloads and enabling scalability for AI and storage over Ethernet.

“DPUs offer a compelling solution for organizations looking to support AI and storage workloads on Ethernet,” said Brandon Hoff, Executive Analyst at IDC. “The Chelsio T7 DPU offers high-performance offloads and congestion control based on open standards; capabilities that make it a flexible and scalable option for modern infrastructure needs from a company with a strong track record.”

## **Additional Resources**

[T7 and S7 Adapter Selector Guide](#)

[T7 DPU Product Brief](#)

[S7 SmartNIC Product Brief](#)

[DPUs Enable Secure, Flexible, and Efficient Semiconductor Solutions in the Datacenter and at the Heavy Edge \(IDC Analyst Brief\)](#)



## **Meet Chelsio at FMS 2025**

Chelsio will be exhibiting at the Future of Memory and Storage (FMS) 2025, taking place from August 5 to 7 in Santa Clara, CA. Visit Booth 851 for a video preview of the T7 architecture and its capabilities in high-performance storage, security, and AI networking.

## **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 data centers, public and private hyperscale clouds, and embedded 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 and DPU solutions fully offload 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](http://www.chelsio.com) and follow the company on [X](#) and [Facebook](#).

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