

Solidigm Develops One of the World's First Liquid-Cooled Enterprise SSDs for AI Deployments

Innovative Combination of Solidigm™ D7-PS1010 E1.S 9.5mm Form Factor and Cold-Plate Technology to Help Enable Industry's First Fully Fanless GPU Servers

San Jose, Calif., March 18, 2025 – [Solidigm](#), a pioneer in enterprise data storage, unveiled at the GTC AI Conference today one of the world's first liquid-cooled enterprise solid state drives (eSSDs) — helping remove the fans historically needed for storage devices and enabling future fully liquid-cooled artificial intelligence (AI) servers.

Until now, the ability to deploy a completely liquid-cooled training server has been hampered by challenges with certain components. Traditional SSD direct liquid cooling (DLC) designs cool only one side of each SSD and prevent hot swapping. To enable more compact designs and decrease cooling costs, it is imperative these servers adopt a complete liquid-cooling approach to enable more compact designs while addressing architectural needs for all the components.

Solidigm has worked with [NVIDIA](#) to address eSSD liquid-cooling challenges, such as hot swap-ability and single-side cooling constraints. At GTC 2025, Solidigm is demonstrating the first cold-plate cooled eSSDs featuring the [Solidigm™ D7-PS1010](#) E1.S 9.5mm form factor.

“Solidigm shows how the combination of an innovative Solidigm E1.S SSD and liquid cold-plate kit — both first-to-market innovations — deliver significant benefits in thermal efficiency while maintaining data center grade serviceability,” said Kevin Noh, Co-CEO of Solidigm.

Available for AI servers in the second half of this year, the Solidigm E1.S SSD and cold-plate kit continue Solidigm's packaging innovation leadership that has inspired enterprise SSDs, including Solidigm being the first to deploy the “ruler” form factor.

Meanwhile, the Solidigm D7-PS1010 E1.S will also come in 15mm form factor to add flexibility of design for air-cooled server and storage systems.

GTC attendees can see this Solidigm technology in action and connect with Solidigm experts at Booth #1602.

About Solidigm

Solidigm, a pioneer in enterprise data storage, leverages decades of product leadership and technical innovation, collaborating with customers to transform their business and propel them into the data-centric future. Our legacy of industry leadership is helping enable AI and more with our robust end-to-end product portfolio for core data centers to the edge. Headquartered in



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