

PCIe 4.0

Xlenstor2 Series

DapuStor Enterprise SLC SSD



The Xlenstor2 Series is one of the latest generation enterprise SLC SSD products of DapuStor. It provides a new level of enterprise SSD storage solutions for data-intensive and high workload environments such as data centers. The Xlenstor2 Series is designed for large and complex data sets with low latency, long service life, high performance, end-to-end data protection, VSS, Multi Namespace, NVMe MI and other enterprise-class product features. It is catering to the increasingly demanding workloads of enterprise storage, cloud services, and networking technologies. The Xlenstor2 X2900P is also one of the fastest enterprise SSD in the world.

Built with DapuStor in-house PCIe Gen4 enterprise-level SSD controller DP600 and XL-FLASH NAND, the Xlenstor2 Series adopts the U.2 2.5-inch 15mm form factor and offers various storage capacities (400/800/1600 GB) which can also be customised based on specific requirements.

XL-FLASH is extremely low-latency, high-performance flash memory that is based on Flash™ 3D flash memory technology. XL-FLASH is classified as Storage Class Memory (or persistent memory), meaning RAM with the ability to retain its contents like NAND flash memory - bridging the performance gap of DRAM and NAND.

Key Features

- Enterprise single/dual port
- Flash Raid 2.0, supporting multiple die failure without affecting service and performance
- Latest NVMe 1.4a key features
- Support firmware online upgrade
- Advanced power lose protection
- Multi-level adjustable power consumption
- Support on-demand customisation

Superior Fast Response and Low Latency

The Xlenstor2 Series provides superior fast response services with extremely low random read/write latency, less than 20µs in read and 8µs in write.

Ultra Endurance

By adopting specially SLC-level enterprise high-quality FAST NAND, the Xlenstor2 Series' endurance can be up to 100 DWPD (5 years), effectively reducing maintenance costs. For the data center cache solution, the Xlenstor2 Series prolongs the service life of other low-cost NAND flash drives in the data center. It is an excellent solution for write-intensive applications such as hypercomputing, intelligent AI scenarios, and metadata processing.

High Performance Accelerates Business Applications

The Xlenstor2 Series supports PCIe 4.0 and 4K random read/write IOPS up to 1750K/1290K, improving overall storage system performance, reducing space occupation in data centers, and optimising data caching, acceleration, AI training, and big data analysis application.

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Product Specifications

PCN (Product Code Name)	X2900		X2900P	
Capacity	800GB	1.6TB	400GB	800GB
Form Factor	U.2 15mm			
Interface	PCIe 4.0 x 4, NVMe 1.4a			
Read Bandwidth (128KB) MB/s	7300	7300	7300	7300
Write Bandwidth (128KB) MB/s	6800	7000	6800	7000
Random Read (4KB) K IOPS	1750	1750	1750	1750
Random Write (4KB) K IOPS	570	600	1290	1080
4K Random Latency (Typ.) R/W μ s	20/8			
4K Sequential Latency (Typ.) R/W μ s	7/8			
Power	Typical: \leq 16.5 W, Idle: \leq 6 W		Typical: \leq 14 W, Idle: \leq 6 W	
Flash Type	3D SLC NAND XL-FLASH			
Endurance	60 DWPD		100 DWPD	
MTBF	2 million hours			
UBER	1 sector per 10^{17} bits read			
Warranty	5 yrs			

*Differences in hardware, software, or configuration will affect actual test results.

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