Xlenstor2

The Newest Generation SCM SSD

Xlenstor2 Series is one of the latest generation enterprise SCM SSD products of DapuStor. Xlenstor2 Series provides a new level of enterprise SSD storage solutions for data-intensive and high workload environments such as data centers. 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. Xlenstor2 Series 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 KIOXIA XL-FLASH NAND, Xlenstor2, the series adopts the U.2 2.5-inch 15mm form factor and offers various storage capacities (400/600/800/1600 GB) which can also be customised based on specific requirements.

High Performance Accelerates Business Applications

Xlenstor2 Series supports PCIe 4.0 and 4K random read/write IOPS up to **1750/1340K**, improving overall storage system performance, reducing space occupation in data centers, and optimising data caching, acceleration, AI training, and big data analysis application.

Superior Fast Response and Low Latency

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, 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.

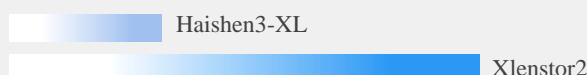## Compare with The First Generation Haishen3-XL

Higher Performance: improve by 110% +

Haishen3-XL
Xlenstor2

Lower Latency: lower by 30% +

Haishen3-XL
Xlenstor2

Higher Endurance: up by 230% +

Haishen3-XL
Xlenstor2

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

Product Specifications

PCN (Product Code Name)	X2900		X2900P	
Capacity	800GB	1.6TB	400GB	800GB
Form Factor	U.2 15mm			
Interface	PCIe 4.0 x4, NVMe 1.4a			
Read Bandwidth (128KB) MB/s	7400	7400	7400	7400
Write Bandwidth (128KB) MB/s	6900	7060	6900	7060
Random Read (4KB) KIOPS	1750	1750	1750	1750
Random Write (4KB) KIOPS	580	620	1340	1130
4K Random Latency (Typ.) R/W µs	20/8			
4K Sequential Latency (Typ.) R/W µs	7/8			
Power	Typical: ≤ 16.5 W, Idle: ≤ 6 W		Typical: ≤ 14 W, Idle: ≤ 6 W	
Flash Type	KIOXIA 96L BiCS4 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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