

Xlenstor5 Series.

Xlenstor5 Ultra-Fast Enterprise NVMe SSD



Xlenstor5 series is purpose-built for enterprise-grade storage, write-intensive workloads. It delivers significantly higher endurance (DWPD), superior performance, and lower latency compared to TLC SSDs. Ideal for high-concurrency environments such as enterprise databases, supercomputing, AI training or inference, and cloud computing, it enhances storage efficiency and helps reduce overall TCO.

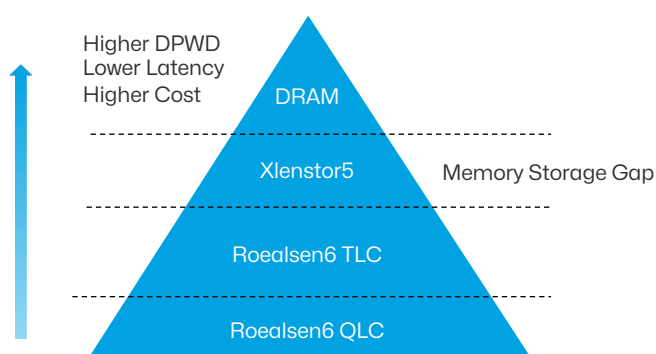
| Faster Response, Lower Latency

Xlenstor5 series delivers exceptional responsiveness with just **21 μ s** random read and **7 μ s** random write latency for business demands.

14/9 GB/s	3300K/1400K	21/7μs
Sequential R/W Speed	Random R/W IOPS	Random R/W Latency

| SCM with Exceptional Performance

Xlenstor5 Series SSD combines **ultra-endurance**, **exceptional performance**, and **ultra-low latency**, bridging the performance gap between DRAM and SSDs. Well-suited for write buffers and caching, it significantly enhances application performance.



| Ultra Endurance, Extended Lifespan

Xlenstor5 SSDs leverage enterprise FAST NAND, delivering up to **120 DWPD** over five years to help reduce the maintenance costs. Designed for caching, they extend the lifespan of storage media in data centers, ideal for hot data caching and high-frequency workloads with both long-term reliability and cost efficiency.

| Advanced Features

NVMe 2.0

- Supports online upgrades, up to 128 namespaces, multiple streams, atomic writes, and advanced data management functions, including sanitizing, copying, verifying, and comparing.

OCP 2.5 Compliance

- Follows the OCP 2.5 specification, facilitating advanced features such as Telemetry, Latency Monitor, and Thermal Throttle.

Supports NVMe-MI 1.2

- Features include MCTP over I2C/SMBUS, over PCIe VDM, out-of-band upgrades, NVMe-MI Send, and NVMe-MI Receive.

End-to-End Data Protection

- Includes DIF/DIX, five sector format types, protection information (Type 1, 2, 3) and detailed logging capabilities, ensuring comprehensive user data safety.

Enterprise Security Features

- Supports Secure Boot, Firmware Security Verification, Format, Sanitize and other enterprise security features.

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I Specifications

PCN (Product Code Name)	X5900P	
Capacity	800 GB	1600 GB
Form Factor	U.2 15mm	
Interface	PCIe 5.0×4, NVMe 2.0	
128KB Read BW MB/s	14000	14000
128KB Write BW MB/s	9000	9000
4KB Rand. Read KIOPS	3300	3300
4KB Rand. Write KIOPS	1400	800
4K Rand. R/W Latency μ s	21/7	
4K Seq.. R/W Latency μ s	6/7	
Typical Power (W)	19	20
Idle Power (W)	5	
Endurance	120 DWPD	60 DWPD
MTBF	2.5 million hours	
UBER	1 sector per 10^{18} bits read	
Warranty	5 yrs	

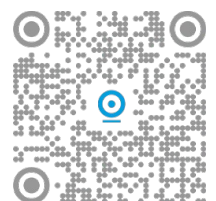
*Differences in hardware, software, or configuration will affect actual test results.

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