

DapuStor R5 series products based on our own developed controller DPU600 and firmware, powered by KIOXIA's latest 3D Enterprise eTLC, provide customers with industry-leading SSDs with high performance, reliability, and low delay, and Provide higher power efficiency and TCO solutions for enterprise IT and cloud facilities. DapuStor R5 series products are widely used in core storage scenarios, such as enterprise IT, operators, Internet, finance, intelligent manufacturing, AI and big data analysis industries.

Advanced Features

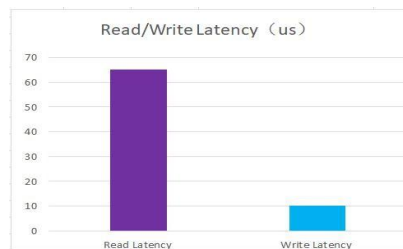
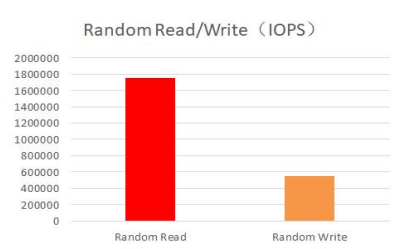
- Flash Raid 2.0, tolerating multiple Flash failure without affecting service and performance
- Latest NVMe 1.4a key features
- Data encryption, supporting a variety of encryption algorithms, and TCG2.0 enterprise specifications.
- Advanced power lose protection, protects user data against power failure in various scenarios.
- 9 levels of energy consumption adjustable, more convenient operation and maintenance and TCO adjustment.

Self-developed controller DPU600

DPU600 is DapuStor's latest self-developed intelligent storage SoC. Based on the latest 12nm FinFet process, DPU600 has industry-leading power consumption ratio, its 4K encoding provides superior error correction capability, and integrates computable storage platform and machine learning architecture based on ASIC acceleration. It will bring significant innovation for future storage computing system architecture. Create more value for users.

High Performance

DapuStor R5 series PCIe Gen4 offers a 100% improvement in bandwidth and IOPS compared to the Haishen3 series. In terms of latency, due to the new DPU600 platform has carried out a number of optimizations on the IO path, the Roalsen5 series products have significantly improved latency and QoS under mixed read-write services.



Leading NAND Technology

Roalsen5 is based on KIOXIA's latest 112L 3D NAND Flash with an extremely high power efficiency ratio. Reduce NAND Retry at the system level through innovative machine learning techniques, and anticipate scenarios in complex scenarios to prevent systemic failures.

Computing and Storage Integration Platform

The DPU600 has a built-in APPLICATION processor platform and DPU-Link heterogeneous computing interface. You can run Linux based on the DPU600, quickly and conveniently transplant applications and algorithms, and improve system efficiency for database, AI, and big data applications.

Feature

Model	DapuStor R5100			DapuStor R5300		
Capacity	3.84 TB	7.68 TB	15.36TB	3.2 TB	6.4 TB	12.8TB
Form Factor	U.2 15mm					
Interface	PCIe 4.0 x4, NVMe 1.4a					
Read Bandwidth(128KB)MB/s	7400	7400	7400	7400	7400	7400
Write Bandwidth(128KB)MB/s	3000	5700	7000	3000	5700	7000
Random Read(4KB)KIOPS	1750	1750	1750	1750	1750	1750
Random Write(4KB)KIOPS	170	280	300	340	550	540
4K Random Latency(Typ.)R/W μ s	65/10					
4K Seq. Latency(Typ.)R/W μ s	8/10					
Power	Active: \leq 22 W, Idle: \leq 7 W					
Flash Type	KIOXIA 3D NAND, 112 layer, 2 plane Enterprise TLC					
Endurance	1 DWPD			3 DWPD		
MTBF	2.5 million hours					
UBER	1 sector per 10^{17} bits read					
Warranty	5yrs					

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

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