DapuStor | 大普微

Roealsen5 Series

DapuStor Enterprise NVMe SSD

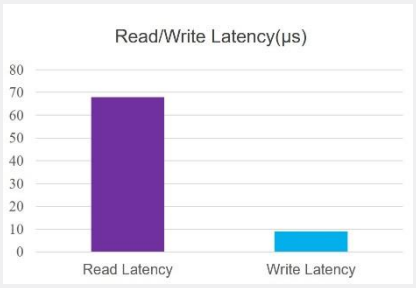
The DapuStor R5 Series is designed and built on DapuStor DP600 controller firmware with 96L 3D enterprise TLC NAND from KIOXIA. Such a unique combination creates industry-leading SSDs with high speed, superior reliability, low latency, and excellent power efficiency, bringing optimised TCO to enterprise IT and cloud facilities. DapuStor R5 series is an ideal solution for core data storage scenarios in different fields, such as enterprise IT, logistics, Internet, finance, intelligent manufacturing, and AI.

Advanced Features

- Flash Raid 2.0 tolerating multiple flash die failures without affecting service and performance
- Latest NVMe 1.4a key features
- Advanced power loss protection that protects user data against power failure in various scenarios.
- Nine levels of adjustable power consumption: more convenient operation, maintenance, and better TCO.

Superior Performance

DapuStor R5 series PCIe Gen4 SSD offers a 100% improvement in bandwidth and IOPS performance compared with the Haishen3 series. In terms of latency, thanks to the new DP600 controller having carried out many optimisations on the IO path, the Roealsen5 series has significantly improved latency and QoS under mixed read-write scenarios.



Industry Mainstream NAND Flash

DapuStor R5 Series is equipped with 96L 3D NAND Flash from KIOXIA, realising an extremely high-power efficiency. It reduces NAND Retry at the system level through innovative machine learning technologies that predict the NAND workload in complex scenarios to prevent systemic failures.

Computing And Storage Converged Platform

The DapuStor DP600 controller for PCIe 4.0 SSD has a built-in APPLICATION processor and the DPU-Link heterogeneous computing interface. It delivers faster speed when running Linux, conveniently transplants applications and algorithms, and improves system efficiency for database, AI, and big data applications.

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Feature

PCN (Product Code Name)	R5102	R5302
Capacity	3.84 TB	3.2 TB
Form Factor	U.2 15mm	
Interface	PCIe 4.0 x4, NVMe 1.4a	
Read Bandwidth (128KB) MB/s	7400	7400
Write Bandwidth (128KB) MB/s	5500	5500
Random Read (4KB) KIOPS	1750	1750
Random Write (4KB) KIOPS	280	540
4K Random Latency (Typ.) R/W µs	68/9	
4K Sequential Latency (Typ.) R/W µs	8/9	
Power	Typical: ≤ 18 W, Idle: ≤ 6 W	
Flash Type	KIOXIA 3D NAND 96 layer Enterprise TLC	
Endurance	1 DWPD	3 DWPD
MTBF	2 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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