DapuStor | MARVELL

Haishen5 Series

DapuStor Enterprise NVMe SSD

PCIe 5.0

The DapuStor Haishen5 Series adopts the latest Marvell™ PCIe Gen5 enterprise controller named Bravera™ and 3D eTLC NAND Flash with DapuStor in-house firmware. It offers double throughput compared with the PCIe Gen4 enterprise SSD. The DapuStor PCIe Gen5 eSSD is designed for data centers, catering to the increasingly storage demands of different industries, like IT, Internet, Finance, Operators, Smart manufacturing, AI, as well as Oil, Electricity and Energy industries.

Enhanced Reliability By Multiple Security Protection

The Haishen5 Series supports multiple enterprise-level security features such as end-to-end data protection, DST, Sanitize, Secure Boot and TCG OPAL 2.0 to ensure system and data security.

Stronger Performance

The Haishen5 Series offers more excellent performance for overall storage system with sequential read/write speeds up to 14000/9500 MB/s, SS random read/write IOPS up to 2800K/700K, and 4K random read/write latency less than 54/8 µs.

14000/9500 MB/s	2800K/700K	54/8 µs
Sequential Read/Write(MB/s)	Random Read/Write(IOPS)	Read/Write Latency(µs)

Support Advanced Features Customisation

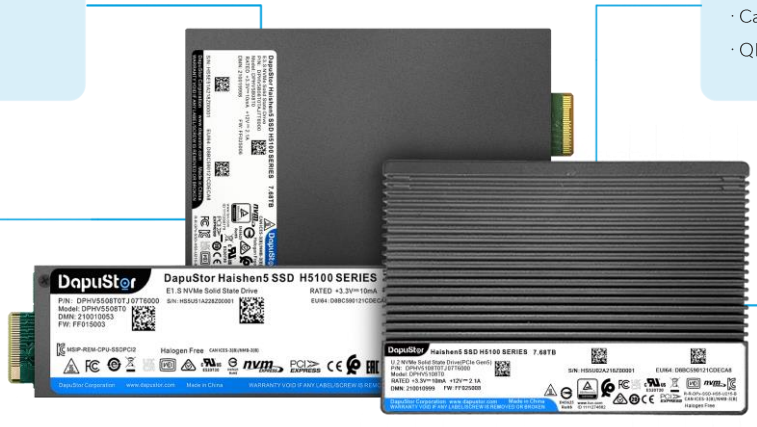
The Haishen5 Series supports multiple VSS sector formats, NVMe 2.0 and NVMe MI 1.2 protocols, and Multi Stream. Other advanced features in the planning such as ZNS, and SR-IOV that can be customized.

The Latest Form Factor

- Support the latest EDSFF E1.S, E3.S and U.2
- Support OCP 2.0

Rich Capacity

- Capacities range from 3.2TB to 30.72 TB
- QLC SSDs offer a capacity up to 32 TB



PCIe 5.0

Built on Marvell™ PCIe 5.0 enterprise controller

Low Latency

4K Read/Write Latency: 54/8 µs

Marvell® Bravera™ SC5 SSD Controllers

PCIe 5.0 SSD Controller supporting up to 16 NAND Channels for enabling next generation cloud storage solutions. Featuring ultra low latency (< 6µs) can enable SSD storage solutions that offer levers to control and meter performance at the drive level being able to offload hypervisors and free up host system resources.

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| Product Specifications

PCN (Product Code Name)	H5100				H5300			
Capacity(TB)	3.84	7.68	15.36	30.72	3.2	6.4	12.8	25.6
Form Factor	U.2 15mm							
Interface	PCIe 5.0×4, NVMe 2.0							
Read Bandwidth (128KB) MB/s	14000	14000	14000	14000	14000	14000	14000	14000
Write Bandwidth (128KB) MB/s	6300	8800	9500	9500	6300	8800	9500	9500
Random Read (4KB)K IOPS	2800	2800	2800	2800	2800	2800	2800	2800
Random Write (4KB) K IOPS	290	380	380	380	600	700	700	700
4K Random Latency (Typ.) R/W μs	56/8	54/8			56/8	54/8		
4K Sequential Latency (Typ.) R/W μs	7/8							
Typical Power(W)	18	19			18	19		
Idle Power(W)	7	5			7	5		
Flash Type	3D eTLC NAND Flash							
Endurance	1 DWPD				3 DWPD			
MTBF	2.5 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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