

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 **14000/10000 MB/s**, SS random read/write IOPS up to **2800K/900K**, and 4K random read/write latency less than **56/8 μs**.

14/10 GB/s

Sequential Read/Write

2800K/900K

Random Read/Write (IOPS)

56/8 μs

Read/Write Latency

Customization for Advanced Features

The Haishen5 series SSDs support various VSS sector formats, NVMe 2.0 and NVMe MI 1.1 protocols, and Multi Stream. They are also compatible with Flexible Data Placement(FDP). In specific scenarios, Write Amplification Factor (WAF) can be reduced to 1. Features can be customized based on customer requirements.

⦿ The Latest Form Factor

- Support the latest EDSFF
- E1.S, E3.S and U.2**
- Support **OCF 2.5**

⦿ Rich Capacity

- Capacities range from **1.6 TB to 30.72 TB**

⦿ PCIe 5.0

Built on **Marvell™** PCIe 5.0 enterprise controller

⦿ Low Latency

4K Read/Write Latency: **56/8 μs**

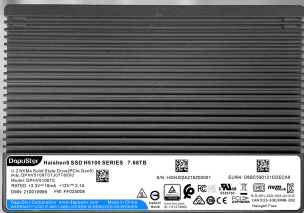


Marvell® Bravera™ SC5 SSD Controllers

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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| Specifications

PCN (Product Code Name)	H5100					H5300				
Capacity (TB)	1.92	3.84	7.68	15.36	30.72	1.6	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	14000	14000
Write Bandwidth (128KB) MB/s	4500	5600	10000	9500	10000	4500	5600	10000	9500	10000
Random Read (4KB)K IOPS	2200	2700	2800	2800	2800	2200	2700	2800	2800	2800
Random Write (4KB) K IOPS	210	260	400	400	450	450	500	750	750	900
4K Random Latency (Typ.) R/W μs	56/8									
4K Sequential Latency (Typ.) R/W μs	8/8	7/8				8/8	7/8			
Typical Power (W)	11	13.5	16	19	19	11	13.5	16	19	19
Idle Power (W)	6	5.5	5.5	6	6	6	5.5	5.5	6	6
Flash Type	3D eTLC NAND Flash									
Endurance	1 DWPD					3 DWPD				
MTBF	2.5 million hours									
UBER	1 sector per 10^18 bits read									
Warranty	5 yrs									
Key Features	NVMe 2.0, NVMe MI 1.1, OCP 2.5, TCG OPAL 2.0 security standards, NVMe Sanitize, Secure Boot, hot-swapping, online updates, out-of-band updates, multi-namespace support, end-to-end data protection, power loss protection, full-path data protection, T10 DIF/DIX, WRR, Flash RAID 2.0, Latency Monitor, DSM, SMART, telemetry, device power management, atomic write, over-temperature protection, universal clock (RefClk), multiple sector formats (VSS), multi-stream, FDP, SGL, CMB, MDTs, and more.									

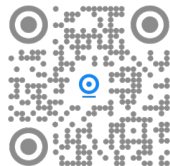
*Differences in hardware, software, or configuration will affect actual test results.

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