

# 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 **14000/5000 MB/s**, SS random read/write IOPS up to **2800K/410K**, and 4K random read/write latency less than **54/8 μs**.

**14000/5000 MB/s**  
Sequential Read/Write(MB/s)

**2800K/410K**  
Random Read/Write(IOPS)

**54/8 μs**  
Read/Write Latency(μs)

### Support Advanced Features Customisation

The Haishen5 series eSSDs 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 OCP 2.5

#### Rich Capacity

- Capacities range from 3.2TB to 30.72 TB
- QLC SSDs offer a capacity up to 128 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	3.2	6.4
Form Factor	E1.S 9.5mm			
Interface	PCIe 5.0 × 4, NVMe 2.0			
Read Bandwidth (128KB) MB/s	14000	14000	14000	14000
Write Bandwidth (128KB) MB/s	5000	5000	5000	5000
Random Read (4KB)K IOPS	2800	2800	2800	2800
Random Write (4KB) K IOPS	200	220	410	410
4K Random Latency (Typ.) R/W μs	56/8	54/8	56/8	54/8
4K Sequential Latency (Typ.) R/W μs	7/8			
Power	Typical: ≤ 17.5 W, Idle: ≤ 6 W			
Flash Type	3D eTLC NAND Flash			
Endurance	1 DWPD		3 DWPD	
MTBF	2.5 million hours			
UBER	1 sector per 10 <sup>17</sup> 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, NAND dynamic offset tuning, FDP, SGL, CMB, MDTS, and more.			

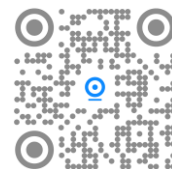
\*Differences in hardware, software, or configuration will affect actual test results.

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