

Haishen5 Series

DapuStor Enterprise NVMe SSD

PCIe 5.0



The DapuStor Haishen5 Series combines the latest Marvell™ Bravera™ PCIe 5.0 enterprise controller, 3D eTLC NAND Flash, and DapuStor in-house firmware. It delivers twice the data throughput of PCIe 4.0 enterprise SSDs. Designed for data centers, it provides efficient storage for enterprise IT, internet, financial services, telecom operators, and smart manufacturing workloads.

Enhanced Reliability

The Haishen5 Series supports enterprise security features including end-to-end data protection, DST, Sanitize, Secure Boot, and TCG OPAL 2.0 to protect systems and data.

Stronger Performance

Haishen5 delivers up to 14,000/9,500 MB/s sequential read/write bandwidth, 2,800K/800K 4K random read/write IOPS, and 54/8 μs 4K random read/write latency.

14/9.5 GB/s
Sequential R/W

2800K/800K
Random R/W IOPS

54/8 μs
R/W Latency

Customization of Advanced Features

The Haishen5 Series supports multiple VSS sector formats, NVMe 2.0, NVMe MI 1.1, Multi-Stream, and FDP. In specific scenarios, FDP can reduce WAF to 1. Features can be customized to customer requirements.



Capacity

3.2 TB to 30.72 TB

Form Factor

EDSFF E1.S, E3.S, and U.2
OCP 2.5 compliant

PCIe 5.0

Marvell™ Bravera™ PCIe
5.0 enterprise controller

Low Latency

4K random R/W: as low
as 54/8 μs

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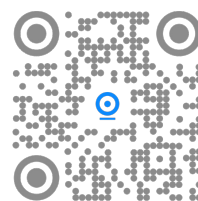


Specifications

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							
128K Seq. Read (MB/s)	14000	14000	14000	14000	14000	14000	14000	14000
128K Seq. Write (MB/s)	6800	9000	9500	9500	6800	9000	9500	9500
4K Random Read (KIOPS)	2800	2800	2800	2800	2800	2800	2800	2800
4K Random Write (KIOPS)	330	400	400	400	660	750	800	800
4KB Random Latency R/W (μs)	56/8	54/8	56/8		56/8	54/8	56/8	
4KB Seq. Latency R/W (μs)	7/8							
Typical Power (W)	13.5	16	19	19	13.5	16	19	19
Idle Power (W)	6		6.5		6		6.5	
Flash Type	3D eTLC NAND Flash							
PN (Model Number)	DPHV510 4T0TA03 T8000	DPHV510 8T0TJ07 T6000	DPHV510 16TTJ15 T3000	DPHV512 32TTJ30 T7000	DPHV510 4T0TA03 T2000	DPHV510 8T0TJ06 T4000	DPHV510 16TTJ12 T8000	DPHV512 32TTJ25 T6000
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 Plug, Online Upgrade, Out-of-Band Upgrade, 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 (RefCik), 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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