DapuStor

Enterprise SSD | SCM

DapuStor is an leading enterprise SSD company on a mission to provide intelligent, ultra-low latency, lower power consumption storage to the enterprise and datacenter customers.

Haishen3 Enterprise NVMe SSD

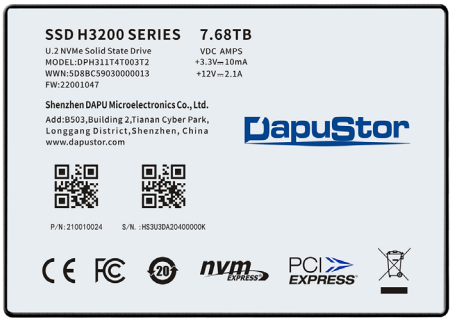
DapuStor Haishen3 enterprise NVMe SSD is built on the latest 96L 3D eTLC NAND and professional enterprise controller, and supports up to 8TB enterprise SSD. In the era of digital transformation and data explosion, we provide enterprise and datacenter customers complete solutions with higher performance, lower power consumption and easier maintenance, as well as customized features such as Open Channel, KV and Zoned Namespace.

Higher IOPS/Watt for lower TCO

With high IOPS and low power consumption by adopting unique Smart-IO technology and industry leading enterprise controller, DapuStor Haishen3 bring a 20%-40% higher IOPS/Watt ratio for lower TCO.

More Secure and Reliable

End-to-end data protection on both firmware and hardware path, including DDR ECC, LDPC, power loss protection.



One Size Fits All

The product is built on the latest 96L 3D eTLC NAND for more flexible capacity options, higher storage density and less space.

Longer Lifetime equial to Lower Cost

Machine Learning algorithm Smart-IO is used to lower WAF and increase SSD lifetime.

Professional Customization

Based on a portable module design and algorithm, Haishen3 supports advanced feature customization such as Dual Port, SIOV, Multi-stream, IOD, etc., as well as new technologies such as Open Channel, KV, and Zoned Namespace.

Haishen3 Specificiation	
Model	**H3200**
Capacity (TB)	0.96 | 1.92 | 3.84 | 7.68
Form Factor	U.2 & HHHL
Interface Protocol	PCIe 3.0 x4 NVMe 1.3
Flash Type	96L 3D XL-FLASH
Read Bandwith (128KB) MB/s	3500
Write Bandwitdh (128KB) MB/s	1360 |2600 | 2900 |2900
Random Read (4KB) KIOPS	580 | 800 | 800 | 800
Random Write (4KB) KIOPS	62 | 120 | 116 | 116
Power Consumption (Typ./Max) Watt	7.0/8.5 | 8.0/9.5 | 8.5/10.5 | 8.5/11.5
Lifespan	1 DWPD
4K Random Latency (Typ.) R/W µs	86/17
4K Sequential Latency (Typ.) R/W µs	15/17
Uncorrectable Bit Error Rate (UBER)	$<10^{-17}$
Mean Time Between Failure (MTBF)	2 Million Hours
Supported OS	RHEL, SLES, CentOS, Ubuntu, Windows Server, Vmware ESXi
Certification	FCC, CE, ROHS, REACH, WEEE, PCI express, NVM express

Recommended Applications

Server & Storage System | Data Center | Video Surveillance
Professional Photography | Stream | Edge Computing | CDN

n+1 technologies

Haishen3-XL Enterprise SCM

Storage Class Memory (SCM) is a building block for high-speed data transfers, next-generation in-memory computing and scale-out clusters for computation and storage. It is the perfect solution for environments that require frequent access to large, complex data sets. Machine Learning, Artificial Intelligence, and real-time data analytics have become a typical part of enterprise and cloud computing. Finding the balance between performance, price, and capacity remains a key challenge for the storage industry. DapuStor introduces a new Storage Class Memory (SCM) product, based on the latest XL-Flash, which provides extremely low latency, long lifespan, and ultra-high performance.

Ultra-Low Latency with High Performance

Adopting industry leading XL-Flash and DapuStor patented Smart-IO technology, Haishen3-XL exhibits 20µs ultra-low read latency and up to 3.5GB/3.2GB bandwidth, 830K/300K IOSPS at low queue depth workloads.

Industry Leading Endurance

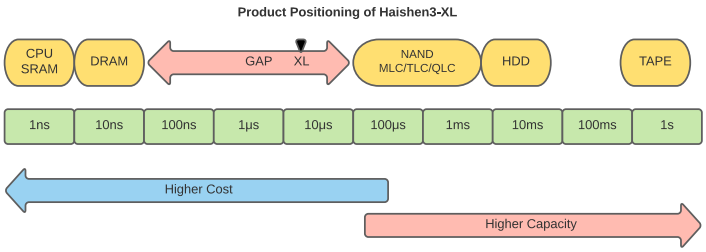
Ultra-thigh performance scenarios usually require high endurance. Based on the optimized SLC-class Fast NAND, Haishen3-XL delivers very high endurance with up to 30 DWPD.

STORAGE REVIEW

"For workloads that need extreme low latency and strong performance, the DapuStor H3900 is the drive you are looking for."

Recommended Applications

Data Cache & Acceleration | In-Memory Database | AI | Big Data



Haishen3-XL Specification	
Model	**H3900**
Capacity (TB)	0.75 | 1.6
Form Factor	U.2 & HHHL
Interface Protocol	PCIe 3.0 x4 NVMe 1.3
Flash Type	96L 3D XL-FLASH
Read Bandwith (128KB) MB/s	3500
Write Bandwitdh (128KB) MB/s	3100 | 3200
Random Read (4KB) KIOPS	830
Random Write (4KB) KIOPS	246
Power Consumption (Typ./Max) Watt	7.0/8.5 | 7.0/9.5
Lifespan	30 DWPD
4K Random Latency (Typ.) R/W µs	30/17 |20/09
Uncorrectable Bit Error Rate (UBER)	$<10^{-17}$
Mean Time Between Failure (MTBF)	2 Million Hours
Supported OS	RHEL, SLES, CentOS, Ubuntu, Windows Server, Vmware ESXi
Certification	FCC, CE, ROHS, REACH, WEEE, PCI express, NVM express

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