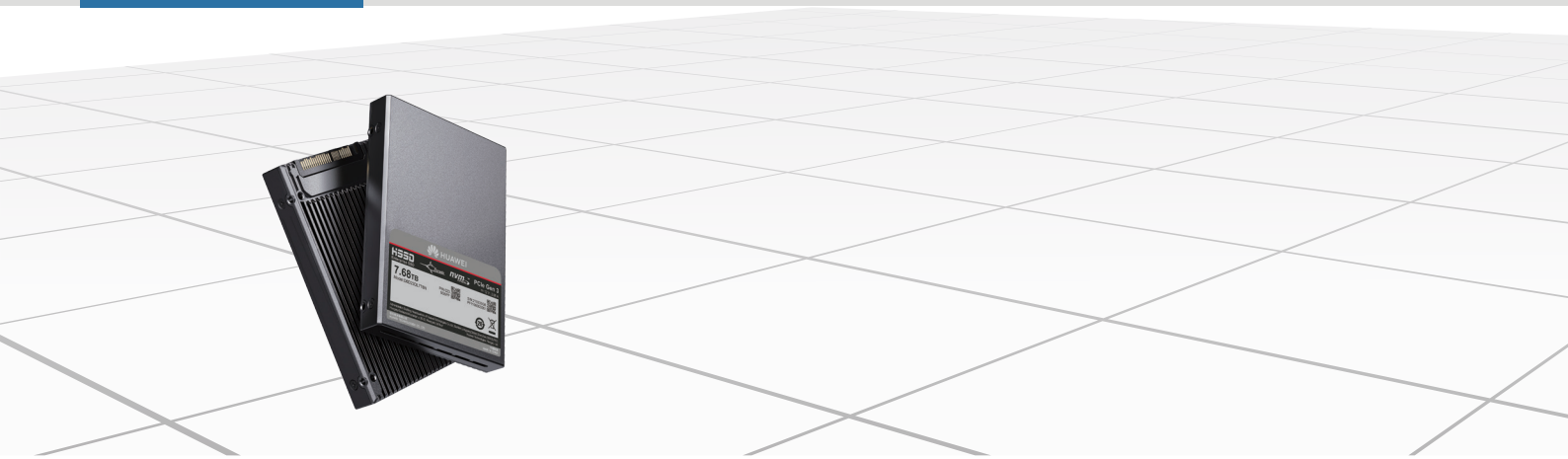
Data Sheet

Huawei HSSD V5 Enterprise NVMe SSD Data Sheet



Huawei Enterprise NVMe SSD is the fifth generation enterprise-level SSD developed by Huawei Technologies Co., Ltd. Featuring high performance, reliability, and easy management, the huawei SSD is the best choice for eliminating the IO bottleneck of the system, improving system efficiency, and optimizing the performance of service applications. The huawei SSD targets high-performance and enterprise-level applications, and applies to scenarios of database, VDI and HPC.

Product Features

Superior performance

Short response time

The average read/write response time reaches 125μs/20μs, which applies to low latency applications.

High read/write performance

The random read/write IOPS reaches 800,000/110,000, which applies to high performance applications.

High bandwidth

The bandwidth for sustained sequential read/write can reach 3,200/2,600 MBps while maintaining consistent latency.

Stability and reliability

Long service life

The dynamic and static wear leveling algorithm and bad block management policy are adopted to provide mean time between failures (MTBF) of longer than 3.0 million hours.

RAID protection

Applies the self-developed chip to realize RAID in Huawei SSD, which eliminates NAND flash failures.

Data protection

The unique data protection design is adopted to prevent data loss in the case of power failures.

Intelligent management

Health check

The running status of the Huawei SSD is checked in real time to prevent exceptions.

Adaptive power consumption

Applies the smart power to adjust the consumption of each Huawei SSD, which applies to different system power consumption scenarios.

Practical tool

The Huawei SSD provides the management tool that can work with the service system, improving the management intelligence of the system.

Application scenarios

Database

Applies the Huawei SSD to improve the concurrent processing capability of the database system.

VDI

Applies the Huawei SSD in system disks, which resolve the boot storm.

High-performance system solution

Applies the Huawei SSD to shorten latency and improve performance.

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Technical Specifications

Model	Huawei HSSD V5 NVMe SSD				
Specifications					
Available capacity	960G	1920G	3840G	7680G	15360G
Interface specifications	PCIe 3.0				
Command Set	NVMe 1.2				
Dual-port Access	Dual-port				
Dimensions	100.2 mm x 69.85 mm x 14.7 mm				
Weight	<= 350 g				
Performance					
Sequential Read Bandwidth (128 KB, QD32)	3200MBps	3200MBps	3200MBps	3200MBps	3150MBps
Sequential Write Bandwidth (128 KB, QD32)	900MBps	1780MBps	2600MBps	2600MBps	2250MBps
Random Read IOPS (4 KB, QD128)	370K	700K	800K	800K	630K
Random Write IOPS (4 KB, QD128)	37K	75K	110K	100K	75K
Average Read Latency (4 KB, QD1)	100µs	100µs	125µs	125µs	125µs
Average Write Latency (4 KB, QD1)	35µs	25µs	20µs	20µs	20µs
Power supply					
Operating voltage	12 V ±10%				
Power consumption (Typical)	6.5 W	6.5 W	7 W	7 W	8 W
Environment					
Temperature	Under 1800 m altitude: 0°C to 60°C Over 1800 m altitude: 1°C decline per 220 meter				
Relative humidity	Operating: 5% RH to 95% RH Non-operating: 5% RH to 95% RH				
Altitude	Operating: –305 m to +3,048 m Non-operating: –305 m to +12,192 m				
Reliability					
Hot plug	Supported				
UBER	< $10e^{-18}$				
MTBF	3.0 million hours				

For More Information

To learn more about Huawei storage, please contact the local office or visit Huawei Enterprise website http://e.huawei.com.

Huawei Enterprise APP

Huawei IT

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