



# Flash Forward with Huawei SSD

Huawei Enterprise SAS 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 135/40  $\mu$ s, which applies to low latency applications.

#### High read/write performance

The random read/write IOPS reaches 200,000/100,000, which applies to high performance applications.

#### High bandwidth

The bandwidth for sustained sequential read/write can reach 1000/900 MBps while maintaining consistent latency, which can replace 15K SAS disks.

### 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.

## Technical Specifications

Model	Huawei SAS SSD			
Specifications				
Interface specifications	SAS3.0			
Available capacity	800 GB	1.6 TB	3.2TB	1.6 TB
Endurance(4K random)	DWPD: 3			DWPD:10
Dimensions	100.2 mm x 69.85 mm x 14.7 mm			
Weight	<= 160 g			
TBW(Random 4K-Aligned)	4380TB	4380TB	17520TB	29200TB
Lifetime	5 years( with the amount of written data not exceeding TBW)			
Performance				
Average read duration (@4 KB, QD1)	135μs			135μs
Average write duration (@4 KB, QD1)	40μs			40μs
Sequential read rate	1000MB/s			1000MB/s
Sequential write rate	900 MB/s			900 MB/s
Random read IOPS (@4 KB)	200,000			200,000
Random write IOPS (@4 KB)	60,000~80,000			100,000
Power supply				
Operating voltage	12V±10%			
Power consumption (Typical)	12W (Active) / 9W ( Typical) / 4.5W (Idle)			
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			
Encryption	Supported			
UBER	< 10e <sup>-17</sup>			
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>.



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HUAWEI TECHNOLOGIES CO., LTD.  
Address: Huawei Industrial Base Bantian, Longgang Shenzhen, PRC  
Tel: (0755) 28780808  
Zip code: 518129  
[www.huawei.com](http://www.huawei.com)