

SAS

12 Gb/s

Interface

2200 MB/s

Bandwidth

430k

IOPS

Huawei ES3000 V5 SAS SSD



Key Specifications

- SAS 3.0 12 Gb/s interface, single-/dual-port mode
- Read-intensive use: 1 DWPD for 5 years, 960 GB to 15.36 TB
- Read and write hybrid use: 3 DWPD for 5 years, 800 GB to 6.4 TB
- Up to 430k random read IOPS
- Up to 2200 MB/s read bandwidth

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The ES3000 V5 series SAS SSD is based on Huawei's ASIC SSD controller chip. Packaged in a 2.5-inch disk form factor, it supports SAS 3.0 12 Gb/s interface, single-/dual-port mode, and provides high-performance and high-reliability storage for enterprise applications, delivering compelling economics.

Model	ES3500S V5	ES3600S V5
Form Factor	2.5-inch	2.5-inch
Interface	SAS 3.0 12 Gb/s	SAS 3.0 12 Gb/s
NAND Flash	3D TLC	3D TLC
Available Capacity	960 GB/1.92 TB/3.84 TB/7.68 TB/15.36 TB	800 GB/1.6 TB/3.2 TB/6.4 TB
Sequential Read/Write Bandwidth@1MB	960 GB: 2200/900 MB/s	800 GB: 2200/1000 MB/s
	1.92 TB: 2200/1800 MB/s	1.6 TB: 2200/1800 MB/s
	3.84 TB: 2200/2000 MB/s	3.2 TB: 2200/2000 MB/s
	7.68 TB: 2200/1750 MB/s	6.4 TB: 2200/1750 MB/s
	15.36 TB: 2200/1600 MB/s	
Random Read/ Write IOPS@4KB	960 GB: 335k/38k	800 GB: 365k/113k
	1.92 TB: 425k/75k	1.6 TB: 425k/155k
	3.84 TB: 430k/108k	3.2 TB: 430k/155k
	7.68 TB: 430k/80k	6.4 TB: 430k/155k
	15.36 TB: 420k/75k	
Average Read/Write Latency@4KB	118 μs/38 μs	118 μs/38 μs
Power Consumption	4 W (idle)	4 W (idle)
	15 W (max.)	15 W (max.)
Endurance ¹	1 DWPD for 5 years	3 DWPD for 5 years
	960 GB: 1.752 PBW	800 GB: 4.38 PBW
Max. Data Written ²	1.92 TB: 3.504 PBW	1.6 TB: 8.76 PBW
	3.84 TB: 7.008 PBW	3.2 TB: 17.52 PBW
	7.68 TB: 14.016 PBW	6.4 TB: 35.04 PBW
	15.36 TB: 28.032 PBW	
	Weight	< 182 g
Reliability	Mean time between failures (MTBF): 2.5 million hours	
	Annual failure rate (AFR): ≤ 0.35% Uncorrectable bit error rate (UBER): 10E-18	
Temperature	Non-operational: -40°C to +85°C (-40°F to +185°F)	
	Operational: 0°C to 60°C (32°F to 140°F)	

Notes:

The specifications are subject to change without notice. Performance results are based on internal testing and use. Results and performance may vary according to configurations and systems, including device capacity, operating system versions, and test tools.

1 Endurance: measured by disk writes per day (DWPD).

2 Max. Data Written: measured by petabyte writes (PBW).

3 The specifications above are the SAS dual-port performance indicators.