



**光语**  
GLORY

# **ES3521A-G Enterprise-class high-performance read-intensive SATA SSD**

**Datasheet**



### High performance

- Sequential read/write bandwidth up to 560/530 MB/s
- Random read/write IOPS@4KB up to 480GB: 98k/50k



### High reliability

- Mean Time between failures (MTBF): 2.5 million hours annual failure rate (AFR):  $\leq 0.35\%$
- Bit error rate (UBER):  $10^{-17}$



### Low power consumption

- Idle power consumption is less than 1.3w, and active power consumption is about 3.7w



### Highly maintainable

- Supports monitoring whether data written to the host every day is reasonable early warning Supports immediate activation after the upgrade

## ■ Technical Specification

Capacity	480GB	960GB	1920GB	3840GB
Form	U.2 2.5-inch disk			
Bus interface	SATA 3.0 6Gb/s			
Flash particle	3D TLC			
Quality guarantee	1 DWPD, 5 years			
Weight	182g			
Reliability	Mean Time between failures (MTBF): 2.5 million hours Annual failure rate (AFR): ≤0.35% Bit error rate (UBER): 10 <sup>-17</sup>			
Temperature	Storage temperature: -40°C ~ +85°C Operating temperature: 0°C ~ 78°C			
Read/write bandwidth MB/s	Upto 560/530			
Random read IOPS(4KB)	98K	98K	98K	98K
Random write IOPS(4KB)	Upto 50K	Upto 47K	Upto 45K	Upto 46K
Total Data Write (PBW)	0.876	1.752	3.504	7
Average read latency @4KB(μs)	140	140	140	100
Average write latency @4KB(μs)	45	45	45	35
RMS power consumption	1.3W (idle) , 3.5W (active)	1.3W (idle) , 3.5W (active)	1.3W (idle) , 3.7W (active)	1.1W (idle) , 3.7W (active)



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