



## ELITE 2.5" SATAIII Solid State Drive

ZPLIN ELITE solid state drive uses 3D NAND flash memory and high-speed controller. It can provide higher storage density and provide read/write performance up to 540/500MB/s. The efficiency and reliability are better than traditional 2D NAND. It has smart SLC cache and DRAM cache buffer to further improve read / write performance. Featuring LDPC ECC, high TBW (Total Bytes Written) and technology.

### Product Features

- ✓ Capacity : 128GB,256GB,512GB,1TB,2TB
- ✓ Form Factor : 2.5"(HDD compatible)
- ✓ Supports 1-port 1.5/3.0/6.0Gbps SATA I/II/III interface.
- ✓ SMART feature set and 48-bit Address feature set
- ✓ Compatibility : Full SATA hard disk compatible
- ✓ Ultra rugged and reliable
- ✓ High-speed performance
- ✓ Silent, no moving parts
- ✓ Data retention: JESD47 compliant
- ✓ Proprietary wear leveling algorithms
- ✓ 100% tested hardware and software

### Ordering Information

Capacity	SKU	EAN Code
128GB	E25S128Z	4710949420024
256GB	E25S256Z	4710949420048
512GB	E25S512Z	4710949420062
1TB	E25S001Z	4710949420086
2TB	E25S002Z	4710949420109

## Specifications

- Capacities : 128GB / 256GB / 512GB / 1TB / 2TB
- Controller : SMI SM2259XT2 / Maxiotek MAS1102B
- NAND Flash : 3D NAND
- Interface : SATA 6Gb/s
- Form Factor : 2.5 inch
- Sequential read/write(Max) : up to 550/500 MB/s
- Terabytes Written (TBW)(Max. capacity): 640TB
- Dimensions (L x W x H) : 100 x 70 x 6.9mm
- Weight : 33.6 g
- Operating Temperature: 0°C ~ 70°C
- Storage Temperature : -40°C ~ 85°C
- MTBF : >1,000,000 hours
- Certifications : RoHS, CE, FCC, VCCI
- Warranty : 3 years limited

## Performance

Device	Capacity	Sequential Performance (Up to) <sup>I</sup>		TBW <sup>II</sup>
		Read (MB/s)	Write (MB/s)	
E25S128Z	128GB	510	460	50TB
E25S256Z	256GB	510	460	100TB
E25S512Z	512GB	550	500	160TB
E25S001Z	1TB	550	500	320TB
E25S002Z	2TB	550	500	640TB

I. Performance may vary based on SSD capacity, test software, hardware test platform, operating system and others system variables.

II. The value is the minimum amount of terabyte written that could be reached.

## Schematics

