



ZM-510 M.2 SATAIII Solid State Drive

ZPLIN ZM-512 M.2 SATAIII SSD NGFF compared to hard drives, they are much smaller, lighter, and consume less power, but have enough storage space to load operating systems and serve as bootable drives for embedded applications. It can be easily installed on a laptop without any cables and provides fast read and write speeds and high reliability, making it an ideal storage solution for servers and mobile environments.

Product Features

- ✓ Capacity: 128GB,256GB,512GB,1TB,2TB
- ✓ Form Factor: 80mm M.2 (80mm NGFF B Key)
- ✓ Electrically fully complied with the SATA-II/SATA-III standards
- ✓ Complied with the slot B primary key SSD SATA pinout
- ✓ Data retention: JESD47 compliant
- ✓ S.M.A.R.T. command transport technology
- ✓ Enhanced endurance by dynamic/static wear-leveling
- ✓ Data integrity under power-cycling
- ✓ 100% tested hardware and software

Ordering Information

Capacity	SKU	EAN Code
128GB	ZM5M2S128Z	4710949420260
256GB	ZM5M2S256Z	4710949420284
512GB	ZM5M2S512Z	4710949420307
1TB	ZM5M2S001Z	4710949420321
2TB	ZM5M2S002Z	4710949420345

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 550/510 MB/s
- Terabytes Written (TBW)(Max. capacity): 800TB
- Dimensions (L x W x H) : 80 x 22 x 2.05mm
- Weight : 6.5 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

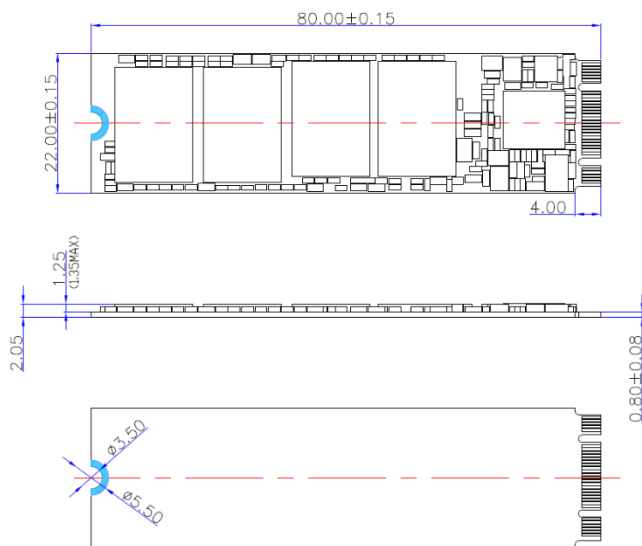
Device	Capacity	Sequential Performance (Up to) ^I		TBW ^{II}
		Read (MB/s)	Write (MB/s)	
ZM5M2S128Z	128GB	550	490	50TB
ZM5M2S256Z	256GB	550	490	100TB
ZM5M2S512Z	512GB	540	490	160TB
ZM5M2S001Z	1TB	540	510	320TB
ZM5M2S002Z	2TB	550	510	640TB

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

Controller: SM2258XT/SM2259XT



Controller: MAS1102

