



## ZM-820 M.2 2280 PCIe Gen4x4 Solid State Drive

ZPLIN ZM-820 M.2 PCIe SSD delivers ultra high read performance up to 7400MB/s and high IOPS, capable of maximum capacity up to 4TB, making the SSD not only as PC's ideal drives for work and pleasure, but also optimal for server and heavy data workload application.

### Product Features

- ✓ Capacity: 512GB,1TB,2TB,4TB
- ✓ External DRAM Buffer
- ✓ PCI Express Gen4: Single portx4 lanes
- ✓ Compliant with PCI Express Base Specification Revision. 4.0
- ✓ Compliant with NVMe Express Specification Revision 1.4
- ✓ Static and Dynamic Wear Leveling and Bad Block Management
- ✓ 4K LDPC + RAID
- ✓ End-to-End data protection
- ✓ Support SMART and TRIM commands
- ✓ Support AES 128/256 (Advanced Encryption Standard)
- ✓ 100% tested HW and SW

### Ordering Information

| Capacity | SKU        | EAN Code      |
|----------|------------|---------------|
| 512GB    | Z82M2I512Z | 4710949423339 |
| 1TB      | Z82M2I001Z | 4710949423346 |
| 2TB      | Z82M2I002Z | 4710949423353 |
| 4TB      | Z82M2I004Z | 4710949423360 |

## Specifications

- Capacities : 512GB / 1TB / 2TB / 4TB
- Controller : MaxioTek MAP1602
- NAND Flash : 3D NAND
- Interface : PCIe Gen 4x4
- Form Factor : M.2 2280
- Sequential read/write(Max) : up to 7400/6400 MB/s
- Terabytes Written (TBW)(Max. capacity): 4000TB
- Warranty : 3 years limited
- PCBA Dimensions (L x W x H) : 80 x 22 x 2.05mm
- Heat Sink Dimensions : 71.5 x 23.2 x 10mm
- PCBA Weight : 6.5 g
- Heat Sink Weight : 30 g
- Operating Temperature: 0°C ~ 70°C
- Storage Temperature : -40°C ~ 85°C
- MTBF : >1,500,000 hours
- Certifications : RoHS, CE, FCC

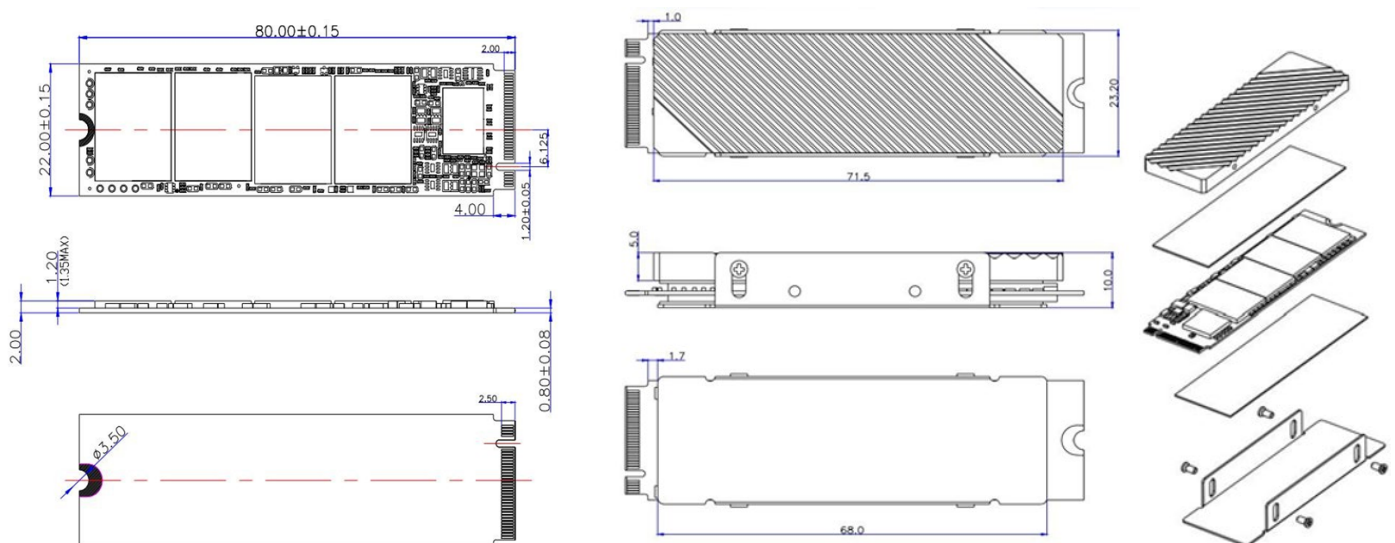
## Performance

| Device     | Capacity | Data Transfer Speed (MB/s) Up to <sup>I</sup> |                  |                |                 | TBW <sup>II</sup> |
|------------|----------|---|------------------|----------------|-----------------|-------------------|
|            |          | Sequential Read                               | Sequential Write | 4K Random Read | 4K Random Write |                   |
| Z82M2I512Z | 512GB    | 7100  | 2600             | 3000           | 2000            | 400TB             |
| Z82M2I001Z | 1TB      | 7100  | 5900             | 4300           | 3100            | 800TB             |
| Z82M2I002Z | 2TB      | 7100  | 6300             | 4300           | 3100            | 1600TB            |
| Z82M2I004Z | 4TB      | 7400  | 6400             | 3800           | 4000            | 4000TB            |

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



\*1.The surface of the heat sink is oxidized, and the base is a stainless steel stamping

\*2. The size of thermal conductive silicone is 67\*20\*0.5mm; Screw KM2\*2.5