


**TLC**
**3D  
NAND**

# Finish first with the best SSD performance

**M.2 SATA INTERNAL SSD**

## Description

The TwinMOS SSD is an excellent choice for a SATA-based solid-state drive (SSD) in an existing PC or MAC desktop or laptop computer. The M.2 SSD is designed to be compact, high performance and help realize faster booting times, quicker application launches, and better overall system performance. TwinMOS featuring a powerful controller and exceptional transfer speeds, the M.2 SSD easily handles everyday computing tasks as well as demanding multimedia applications.. In addition, the Wear-Leveling technology and ECC Function ensure the reliability of TwinMOS M.2 SATA SSD. It is your top choice when it comes to Sata based M.2 SSD!



## Ordering Information

| EAN CODE      | PART #       | CAPACITY |
|---------------|--------------|----------|
| 6291104606104 | NGFFDGBM2280 | 128GB    |
| 6291104603516 | NGFFEGBM2280 | 256GB    |
| 6291104603547 | NGFFGGBM2280 | 512GB    |
| 6291104604186 | NGFFGGBM2280 | 1TB      |
| 6291104607774 | NGFF2TBM2280 | 2TB      |

## Performance

| CAPACITY | Sequential Read Speed Up to (MB/s) | Sequential Write Speed Up to (MB/s) | 4k Random read IOPS (Up to) | 4K Random write IOPS (Up to) | Endurance (TBW Max Capacity) |
|----------|------------------------------------|-------------------------------------|-----------------------------|------------------------------|------------------------------|
| 128GB    | 580 MB/s                           | 550 Mb/s                            | 90K                         | 90K                          | 125TBW                       |
| 256GB    | 580 MB/s                           | 550 Mb/s                            | 90K                         | 90K                          | 250TBW                       |
| 512GB    | 580 MB/s                           | 550 Mb/s                            | 90K                         | 90K                          | 500TBW                       |
| 1TB      | 580 MB/s                           | 550 Mb/s                            | 90K                         | 90K                          | 1000TBW                      |
| 2TB      | 580 MB/s                           | 550 Mb/s                            | 90K                         | 90K                          | 2000TBW                      |

[1] 1 GB=1,000,000,000 Bytes. In OS system, it would be displayed as 1,000,000,000 Bytes/1024/1024/1024 = 0.93 GB

[2] Definition and conditions of TBW (Terabytes Written) are based on JEDEC standard

[3] Transmission speed will vary according to different hardware/software conditions, therefore the data can only use for basic reference.

● We reserve the right to modify product specifications without prior notice. Different devices may have a different best format for usage. It is recommended to format the device before use to ensure the correctness and the integrity of the SSD.

## Specification

- Model: TwinMOS SSD M2 2280
- Sequential Read Speed (MB/s): Up to 580 Mb/s
- Sequential Write Speed (MB/s): Up to 550 Mb/s
- Form Factor: M.2 2280
- Interface: SATAIII
- NAND Type: TLC 3D NAND
- NAND Flash Brand: Micron
- SSD Controller Brand: SMI
- Bridge Controller MTBF: >1,500,000 hours
- Shock Resistance: 1500G/0.5ms
- Voltage: 3.3V
- MTBF: 1.5 Million hours
- Operating Temperature: 0°C to 70°C
- Dimensions (LxWxH): 80x22x3.5mm
- Weight: 10g
- Low density parity check (LDPC)
- Failed Blocks of Flash will be replaced with new ones by the SSD.
- Smart: Yes
- TRIM: Yes
- Certification: ROHS
- Warranty: 3 Years