



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	NGFFFGBM2280	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

## 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

[1] 1GB=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.