TwinMOS®

TwinMOS Xtreme PCIe Gen 3x4 M.2 2280 Solid State Drives

TLC

3D NAND

NVMe Pro 2280 M.2 SSD

Description

Genuine PCIe NVMe Gen3 x4 speed (128GB – 1 TB) Max Sequential Speed up to 2455MB/s Read and 1832 MB/s Write.
(2 TB) Max Sequential Speed up to 3500MB/s Read and up to 3080MB/ Write.Space-saving and compact M.2 2280 form factor,

Specification

- Model: XTREME (for capacity 2TB)
- Model: AlphaPro   (for capacity 256GB / 512GB / 1TB)
- Sequential Read Speed (MB/s) : Up to 3500 Mb/s
- Sequential Write Speed (MB/s) : Up to 3080 Mb;s
- Form Factor : M.2 2280
- Interface/ Protocol : PCIe Gen 3.0 x 4/ NVMe
- NAND Type : TLC 3D NAND
- NAND Flash Brand : Micron/ Hynix/ Samsung
- SSD Controller Brand : Silicon Motion
- Voltage : 3.3V
- MTBF : 1.5 Million hours
- Bridge Controller MTBF : >1,500,000 hours
- Shock Resistance: 1500G/0.5ms
- Dimensions (LxWxH): 80x22x2.20 mm
- Weight: 7g
- Low density parity check (LDPC)
- Failed Blocks of Flash will be replaced with new ones by the SSD.
- Has DRAM Cache*
- Cache size: 2GB*
- Smart: Yes
- TRIM: Yes
- Certification: ROHS
- Warranty: 3 Years

Ordering Information

EAN CODE	PART #	CAPACITY
6291104604230	NVMEDGBM2280	128GB
6291104604247	NVMEEGBM2280	256GB
6291104604254	NVMEFGBM2280	512GB
6291104604261	NVMEGGBM2280	1TB
6291104605343	NVMEHGBM2280	2TB

Performance

CAPACITY	Sequential Read Speed Up to (MB/s)	Sequential Write Speed Up to (MB/s)	4k Random read IOPS (Max.)	4K Random write IOPS (Max)	Endurance (TBW Max Capacity)
128GB	1868 MB/s	1612 Mb/s	220K	210K	125TBW
256GB	2034 MB/s	1612 Mb/s	220K	210K	250TBW
512GB	2104 MB/s	1698 Mb/s	230K	210K	500TBW
1TB	2455 MB/s	1832 Mb/s	260K	270K	1000TBW
2TB	3500 Mb/s	3080 Mb/s	260K	270K	2000TBW

[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.
* Applicable only for 2 TB (XTREME) Variable