

# MARS 980 STORM PCIe Gen5 x4 M.2 2280 SSD DUAL-COOL, FULL BOOST

## XPG MARS 980 STORM PCIe Gen5 x4 M.2 2280 Solid State Drive

MARS 980 STORM Gen5 SSD is the industry's first M.2 SSD with liquid and fan dual cooling. The fan auto-activates via M.2 slot for sustained stable performance. With speeds up to 14,000/13,000MB/s, 4TB capacity, and strong AI computing support, it's compatible with the latest Intel and AMD platforms—leading the next-gen cooling trend.

### Features

- PCIe Gen5 x4 transmission interface
- R/W speed up to 14,000/13,000MB/s for PC/laptop
- Patented liquid and fan-cooled heat dissipation
  - Cooling system design
- Compared with a fanless heatsink, temperatures significantly reduced by 20%
- Active cooling is powered directly from the M.2 slot, no additional charging cable needed
- Capacity up to 4TB
- SLC Caching and DRAM Cache Buffer
- Pyrite encryption support
- Advanced LDPC ECC Technology
- Supports latest Intel and AMD platforms

### Ordering Information

Capacity	Model Number	EAC Code / UPC Code
4TB	SMAR-980S-4TCI	4711085949479
		842243034769
2TB	SMAR-980S-2TCI	4711085949462
		842243034752
1TB	SMAR-980S-1TCI	4711085949455
		842243034745



## Specifications

- Capacities: 4TB / 2TB / 1TB
- NAND Flash: 3D NAND
- Controller: SMI SM2508
- Interface: PCIe Gen5 x4
- Form Factor: M.2 2280
- Sequential read/write (Max.):  
Up to 14,000/13,000MB/s (PC/laptop)  
Read speed up to 6,500MB/s (PS5)
- Operating Temperature: 0°C~70°C
- Storage Temperature: -25°C~60°C
- Weight:  
72g / 2.54oz (with heatsink)
- Dimensions (L x W x T):  
80.5 x 24.2 x 30.45mm (with heatsink)
- Terabytes Written (TBW)(Max. capacity): 2,960TB
- Shock Resistance: 1500G/0.5ms
- MTBF: 1,600,000 hours
- Warranty: 5-year limited
- Certifications: CE, FCC, BSMI, KC, Morocco, EAC, RCM, UKCA, RoHS

## Performance

Capacity	Sequential Performance (Up to)		4K Random (Up to)		TBW
	Read (MB/s)	Write (MB/s)	Read (IOPS)	Write (IOPS)	
4TB	14,000	13,000	1,950K	1,650K	2,960TB
2TB	14,000	13,000	2,000K	1,650K	1,480TB
1TB	14,000	10,000	1,600K	1,650K	740TB

<sup>1</sup> Platform Information: M/B: ASUS ROG CROSSHAIR X670E HERO, CPU: AMD Ryzen 9 7950X3D 16-Core Processor 4.2GHz, BIOS Ver: 2604 x64, DRAM: DDR5 16GB\*2 4800MHz, OS Ver: Windows 11 / 24H2

<sup>2</sup> Speed test by Crystal Disk Mark 8.0.4 x64

<sup>3</sup> The value is the minimum amount of terabyte written that could be reached.

<sup>4</sup> Performance may vary based on SSD capacity, hardware test platform, test software, operating system and other system variables

## Schematics

<With heatsink>

