



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	
4TD	SMAR-980S-4TCI	4711085949479	
4TB		842243034769	
2ТВ	SMAR-980S-2TCI	4711085949462	
		842243034752	
1TB	SMAR-980S-1TCI	4711085949455	
		842243034745	









Specifications

• Capacities: 4TB / 2TB / 1TB

NAND Flash: 3D NANDController: SMI SM2508Interface: 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: 2,000,000 hoursWarranty: 5-year limited

• Certifications: CE, FCC, BSMI, KC, Morocco, EAC, RCM,

UKCA, RoHS

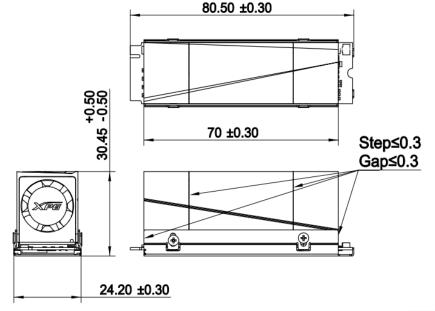
Performance

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

¹ 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

Schematics

<With heatsink>



CAN ICES-3 (B)/NMB-3(B)

WARNING: Cancer and Reproductive Harm www.P65Warnings.ca.ge











²Speed test by Crystal Disk Mark 8.0.4 x64

 $^{^{\}rm 3}$ The value is the minimum amount of terabyte written that could be reached.

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