

MARS 980 PRO PCIe Gen5 x4 M.2 2280 SSD

Fast Moves, Stay Cool

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

MARS 980 PRO Gen5 SSD features aluminum heatsinks and a turbo fan for active cooling, auto-activated via M.2 slot. With 14,000/13,000MB/s speeds, 4TB capacity, and strong AI computing support, it also expands storage for PS5 consoles, it's compatible with the latest Intel and AMD platforms—built for next-gen speed and stability.

Features

- PCIe Gen5 x4 transmission interface
- R/W speed up to 14,000/13,000MB/s for PC/laptop
- Aluminum alloy and trubo fan form an active air — Cooling system
- 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
- Work with PS5
- Read speed up to 6,500MB/s for PS5
- 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-980P-4TCI	4711085949448
		842243034738
2TB	SMAR-980P-2TCI	4711085949431
		842243034721
1TB	SMAR-980P-1TCI	4711085949424
		842243034714



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: -40°C~85°C
- Weight:
30.3g / 1.07oz (with heatsink)
- Dimensions (L x W x T):
80.5 x 24.2 x 11.2mm (with heatsink)
- Terabytes Written (TBW)(Max. capacity): 2,960TB
- Shock Resistance: 1500G/0.5ms
- MTBF: 2,000,000 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)		PS5 (Up to)	TBW
	Read (MB/s)	Write (MB/s)	Read (IOPS)	Write (IOPS)	Seq. Read (MB/s)	
4TB	14,000	13,000	1,950K	1,650K	6,500	2,960TB
2TB	14,000	13,000	2,000K	1,650K	6,500	1,480TB
1TB	14,000	10,000	1,600K	1,650K	6,100	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

² Speed test by Crystal Disk Mark 8.0.4 x64

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

Schematics

<With heatsink>

