

MARS 980 BLADE PCIe Gen5 x4 M.2 2280 SSD

BLADEFAST. SHARP UNSTOPPABLE.

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

MARS 980 BLADE is the gaming PCIe 5.0 Gen5 SSD for laptops, delivering up to 14,000/13,000MB/s speeds and 4TB capacity. Engineered for long-lasting, stable performance, AI workloads, PS5 expansion, and the latest Intel and AMD platforms.

Features

- The gaming laptop-ready PCIe 5.0 SSD
- PCIe Gen5 x4 transmission interface
- R/W speed up to 14,000/13,000MB/s for PC/laptop
- Powered by TSMC 6nm process
 - runs cool without extra cooling hardware
- Work with PS5
- Capacity up to 4TB
- SLC Caching and DRAM Cache Buffer
- Pyrite encryption support
- Advanced LDPC ECC Technology

Ordering Information

Capacity	Model Number	EAC Code / UPC Code
4TB	SMAR-980B-4TCS	4711658150844
		842243035674
2TB	SMAR-980B-2TCS	4711658150837
		842243035667
1TB	SMAR-980B-1TCS	4711658150820
		842243035650





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)
- Operating Temperature: 0°C~70°C
- Storage Temperature: -40°C~85°C
- Shock Resistance: 1500G/0.5ms

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- Weight:
12g / 0.42oz (with heatsink)
8g / 0.28oz (without heatsink)
- Dimensions (L x W x T):
80 x 22 x 4.5mm (with heatsink)
80 x 22 x 3.2mm (without heatsink)
- Terabytes Written (TBW)(Max. capacity): 2,960TB
- 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)		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

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>

<Without heatsink>

