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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
- 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

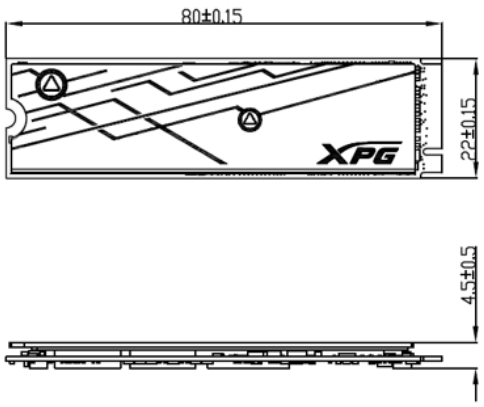
[2] Speed test by Crystal Disk Mark 8.0.4 x64

[3] The value is the minimum amount of terabyte written that could be reached.

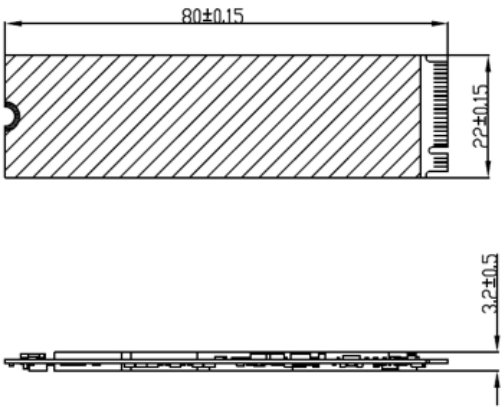
[4] Performance may vary based on SSD capacity, hardware test platform, test software, operating system and other system variables

Schematics

<With heatsink>



<Without heatsink>



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

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

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R-R-A99-MARS D33A23 RoHS