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 Gen5 SSD is the industry's first PCIe 5.0 SSD built for laptops. With blazing-fast sequential read/write speeds up to 14,000 / 13,000 MB/s and a spacious 2TB capacity, it delivers long-lasting, stable performance for demanding tasks. Fully compatible with the latest Intel and AMD platforms, it defines a new era of speed and cooling in style.

Features

- The world's first 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
- Read speed up to 6,500MB/s for PS5
- Capacity up to 2TB
- SLC Caching and DRAM Cache Buffer
- Pyrite encryption support
- Advanced LDPC ECC Technology

Ordering Information

Capacity	Model Number	EAC Code / UPC Code
2TB	SMAR-980B-2TCI	4711658150837
		842243035667
1TB	SMAR-980B-1TCI	4711658150820
		842243035650

Specifications

- Capacities: 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
- 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): 1,480TB
- 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)		PS5 (Up to)	TBW
	Read (MB/s)	Write (MB/s)	Read (IOPS)	Write (IOPS)	Seq. Read (MB/s)	
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: 1709 x64, DRAM: DDR5 16GB*2 2666MHz, OS Ver: Windows 11 / 23H2
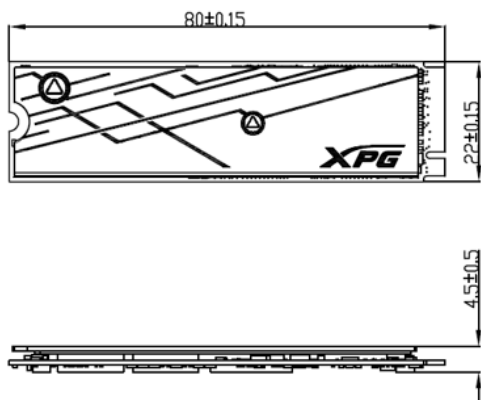
[2] Speed test by Crystal Disk Mark 8.0.4 x64

[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>

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

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

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