



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 | |
|----------|----------------|---------------------|--|
| 4ТВ | SMAR-980B-4TCS | 4711658150844 | |
| | | 842243035674 | |
| 2ТВ | 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):

 $80 \times 22 \times 4.5$ mm (with heatsink)

80 x 22 x 3.2mm (without heatsink)

• Terabytes Written (TBW)(Max. capacity): 2,960TB

MTBF: 2,000,000 hoursWarranty: 5-year limited

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

UKCA, RoHS

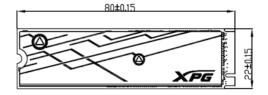
Performance

| 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 | 2,960ТВ |
| 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

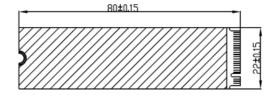
Schematics

<With heatsink>





<Without heatsink>

















adata@adata.com

²Speed 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