

Rapid-fire speeds. Reliable power.

Fast speeds. Power efficiency. Temperature control. It's everything you want in a storage device. It's compatible with the latest PCIe 4.0 x4 and PCIe 5.0 x2 interfaces, and boasts improved performance compared to 970 EVO Plus.



- 1TB** MZ-V9E1T0B/AM | UPC 887276812519
- 2TB** MZ-V9E2T0B/AM | UPC 887276812526

Key Features

Rapid-Fire Speeds



Load games and save files in a flash. Bring power to your productivity with read and write speeds of up to 5,000/4,200 MB/s.¹

Power Efficiency



Save the power for your performance. Get power efficiency all while experiencing up to 70% improved performance per watt over the 970 EVO Plus.²

Smart Thermal Control



Ramp things up without overheating the system. Samsung's fine-tuned controller and heat spreading label deliver effective thermal control to avoid performance drops mid-project.

PCIe 4.0 and Gen 5.0



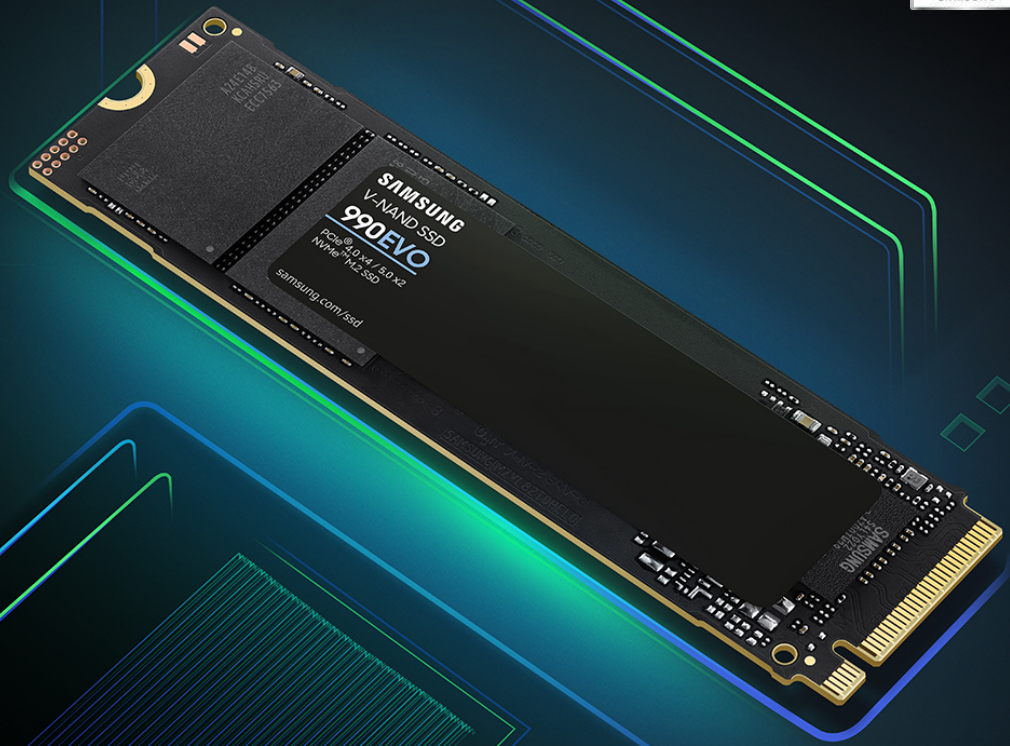
Optimized to support the latest technology for SSDs—990 EVO is compatible with PCIe 4.0 x4 and PCIe 5.0 x2. This means you get more bandwidth and higher data processing and performance.

Samsung Magician Software



Get the most out of your SSD with Samsung Magician's advanced yet intuitive optimization tools. Monitor drive health, protect valuable data, receive important updates for your 990 PRO. It's your personal SSD toolkit.

¹Sequential and random write performance was measured with Intelligent Turbo Write technology being activated. Intelligent Turbo Write operates only within a specific data transfer size. Performance may vary depending on SSD's firmware, system hardware & configuration and other factors. For detailed information, please contact your local service center. Test system configuration: AMD Ryzen9 7950x 16-Core Processor CPU@4.5GHz, DDR5 4800MHz 16GBx2 (PC5-38400), OS-Windows 11 Pro 64bit, Chipset - ASRock X670E Taichi. To maximize the performance of the 990 EVO, please check whether your system supports PCIe® 4.0 or PCIe® 5.0 at the Intel or AMD website. ²970 EVO Plus Sequential Read/Write - 636/550 MB/Watt, 990 EVO Sequential Read/Write - 1,020/933 MB/Watt based on test result of the 1TB capacity model.



Specifications

Source: 2003–2022 OMDIA data: NAND suppliers' revenue market share.

Interface PCIe® 4.0 x4 / 5.0 x2 NVMe™ 2.0

Form Factor M.2 (2280)

Hardware NAND TLC (revised V6) Cache Memory Host Memory Buffer
Controller In-House

Capacity 1TB/2TB

Sequential Read/Write (MB/s) Up to 5,000/4,200

Random Read/Write (IOPS,QD32) Up to 800KIOPS

Idle (PS3 – APST on / PS4 – L1.2) Typical 60mW / Typical 5mW

Data Encryption Class 0 (AES 256), TCG/Opal v2.0, MS eDrive (IEEE1667)

Total Bytes Written 600 TBW (1TB)
1,200 TBW (2TB)

Warranty Limited 5-year

1TB

2TB

**990 EVO: Gen5 PCIe®
NVMe™ SSD**

