**990 PRO PCIe® 4.0 NVMe™ SSD 2TB**

**MZ-V9P2T0 /MZ-V9P2T0B/AM**

* • Designed for tech enthusiasts, hardcore gamers and heavy-workload professionals who want blazing fast speed.
* • Enjoy up to 50% improved performance per watt over 980 PRO, plus optimal power efficiency with max PCIe® 4.0 performance.  
    
  • Sequential read/write speeds up to 7,450/6,900 MB/s.

**Storage**

**[2TB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/990-pro-pcie-4-0-nvme-ssd-2tb-mz-v9p2t0b-am/" \t "_self)**

[$179.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/990-pro-pcie-4-0-nvme-ssd-2tb-mz-v9p2t0b-am/" \t "_self)~~[$239.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/990-pro-pcie-4-0-nvme-ssd-2tb-mz-v9p2t0b-am/" \t "_self)~~

**[1TB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/990-pro-pcie--4-0-nvme--ssd-1tb-mz-v9p1t0b-am/" \t "_self)**

[$99.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/990-pro-pcie--4-0-nvme--ssd-1tb-mz-v9p1t0b-am/" \t "_self)~~[$149.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/990-pro-pcie--4-0-nvme--ssd-1tb-mz-v9p1t0b-am/" \t "_self)~~

* General Feature

**Application**

Client PCs, Game Consoles

**Capacity**

2,000GB (1GB=1 Billion byte by IDEMA) \* Actual usable capacity may be less (due to formatting, partitioning, operating system, applications or otherwise)

**Interface**

PCIe Gen 4.0 x4, NVMe 2.0

**Dimension (WxHxD)**

80 x 22 x 2.3 mm

**Weight**

Max 9.0g Weight

**Storage Memory**

Samsung V-NAND 3-bit MLC

**Controller**

Samsung 2GB Low Power DDR4 SDRAM

* Performance

**Random Read (4KB ,QD32)**

Up to 1,400,000 IOPS \* Performance may vary based on system hardware & configuration

**Random Write (4KB ,QD32)**

Up to 1,550,000 IOPS \* Performance may vary based on system hardware & configuration

**Random Read (4KB ,QD1)**

Up to 22,000 IOPS \* Performance may vary based on system hardware & configuration

**Random Write (4KB ,QD1)**

Up to 80,000 IOPS \* Performance may vary based on system hardware & configuration

* Type

**Product Type**

990 PRO

**Interface**

PCIe Gen 4.0 x4, NVMe 2.0

**Usage Application**

Client PCs, Game Consoles

* Storage

**Capacity**

2,000GB (1GB=1 Billion byte by IDEMA) \* Actual usable capacity may be less (due to formatting, partitioning, operating system, applications or otherwise)

* Key Features

**Sequential Read Speed**

Up to 7,450 MB/s \* Performance may vary based on system hardware & configuration

**Sequential Write Speed**

Up to 6,900 MB/s \* Performance may vary based on system hardware & configuration

**Cache Memory**

Samsung 2GB Low Power DDR4 SDRAM

**Trim Support**

Supported

**S.M.A.R.T. Support**

Supported

**GC (Garbage Collection)**

Auto Garbage Collection Algorithm

**WWN Support**

Not supported

**Device Sleep Mode Support**

Yes

**NVMe**

Yes

* General

**Average Power Consumption (system level)**

\*Average: 5.5 W\*Maximum: 8.5 W (Burst mode)\* Actual power consumption may vary depending on system hardware & configuration

**Power consumption (Idle)**

Max. 55 mW \* Actual power consumption may vary depending on system hardware & configuration

**Reliability (MTBF)**

1.5 Million Hours Reliability (MTBF)

* Environmental Specs

**Operating Temperature**

0 - 70 ℃ Operating Temperature

**Shock**

1,500 G & 0.5 ms (Half sine)

* Form Factor

**Product**

M.2 (2280)

* Software

**Management SW**

Magician Software for SSD management

* Warranty

**Product**

5-Year Limited Warrantyor 1200 TBW Limited Warranty

* Special Feature

**Encryption Support**

AES 256-bit Encryption (Class 0)TCG/Opal IEEE1667 (Encrypted drive)

* Environment

**Allowable Voltage**

3.3 V ± 5 % Allowable voltage