**980 PRO w/ Heatsink PCIe® 4.0 NVMe™ SSD 1TB**

**MZ-V8P2T0 /MZ-V8P2T0CW**

* • True PCIe® 4.0 NVMe™ speed (up to 7,000 MB/s for seq. reads,  5,100MB/s for seq. writes)  
    
  •  Ideal for heavy computing, high resolution graphics and PC gaming.   
    
  • For console gaming, compatible only with Playstation® 5.

**Storage**

**[2TB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/980-pro-w-heatsink-pcie-4-0-nvme-ssd-2tb-mz-v8p2t0cw/" \t "_self)**

[$159.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/980-pro-w-heatsink-pcie-4-0-nvme-ssd-2tb-mz-v8p2t0cw/" \t "_self)~~[$209.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/980-pro-w-heatsink-pcie-4-0-nvme-ssd-2tb-mz-v8p2t0cw/" \t "_self)~~

**[1TB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/980-pro-w-heatsink-pcie-4-0-nvme-ssd-1tb-mz-v8p1t0cw/" \l "benefits" \t "_self)**

[$89.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/980-pro-w-heatsink-pcie-4-0-nvme-ssd-1tb-mz-v8p1t0cw/" \l "benefits" \t "_self)~~[$139.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/980-pro-w-heatsink-pcie-4-0-nvme-ssd-1tb-mz-v8p1t0cw/" \l "benefits" \t "_self)~~

* General Feature

**Product Type**

NVMe™ SSD

**Family Line**

980 PRO with Heatsink PCIe® 4.0 NVMe™ SSD

**Capacity**

1TB

**Interface**

PCIe® 4.0

**Compatibility**

PC & Playstation® 5

* Performance

**Encryption**

AES 256-bit (SED), TCG V2.0, Encrypted Drive (IEEE1667)

* Type

**Interface**

PCIe Gen 4.0 x4, NVMe 1.3c

**Read/Write Speeds**

7,000/5,000MB/s

**Usage Application**

Client PCs, Game Consoles

* Storage

**Capacity**

1,000GB (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 7,000 MB/s \* Performance may vary based on system hardware & configuration

**Sequential Write Speed**

Up to 5,000 MB/s \* Performance may vary based on system hardware & configuration

**Compatibility**

980 PRO is backward compatible with PCIe 3.0. Sequential performances (up to): 3450 MB/s (1TB), 3470 MB/s (2TB) for writes. Random (up to): 690K IOPS (1TB), 680K IOPS (2TB) for reads, 660K IOPS (1TB), 630K IOPS (2TB) for writes.

**Cache Memory**

Samsung 1GB 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

**Internal Storage**

Samsung V-NAND 3-bit MLC

**Thermal protection**

Heatsink

**Heatsink**

Yes

**M.2 2280**

Yes

* General

**Average Power Consumption (system level)**

\*Average: 6.2 W\*Maximum: 8.9 W (Burst mode)\* Actual power consumption may vary depending on system hardware & configuration

**Power consumption (Idle)**

Max. 35 mW \* Actual power consumption may vary depending on system hardware & configuration

**Reliability (MTBF)**

1.5 Million Hours Reliability (MTBF)

* Environmental Specs

**Shock**

1,500 G & 0.5 ms (Half sine)

* Form Factor

**Product**

M.2 (2280) with Heatsink complying PCI-SIG® D8 standard

* Dimensions (W x H x D)

**Product**

24 x 80 x 8.6 mm (with heatsink)

* Weight

**Product**

Max 30.5g

* Warranty

**Product**

\* Limited warranty up to 5 years or up to the TBW for each capacity \*\*\*For more information on the warranty, please visit www.samsung.com/support