**970 EVO NVMe® M.2 SSD 250GB**

**MZ-V7E250 /MZ-V7E250BW**

* • Superior NVMe® Read/Write performance
* • V-NAND reliability backed by up to 5 yr. warranty

**Storage**

**[2TB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/ssd-970-evo-nvme-m2-2tb-mz-v7e2t0bw/" \t "_self)**

[$599.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/ssd-970-evo-nvme-m2-2tb-mz-v7e2t0bw/" \t "_self)

**[1TB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/ssd-970-evo-nvme-m-2-1tb-mz-v7e1t0bw/" \t "_self)**

[$159.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/ssd-970-evo-nvme-m-2-1tb-mz-v7e1t0bw/" \t "_self)

**[500GB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/ssd-970-evo-nvme-m2-500gb-mz-v7e500bw/" \t "_self)**

[$79.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/ssd-970-evo-nvme-m2-500gb-mz-v7e500bw/" \t "_self)

**[250GB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/ssd-970-evo-nvme-m-2-250gb-mz-v7e250bw/" \t "_self)**

[$97.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/ssd-970-evo-nvme-m-2-250gb-mz-v7e250bw/" \t "_self)

* Type

**Interface**

PCIe Gen 3.0 x4, NVMe 1.3

**Usage Application**

Client PCs

**Series**

SSD 970 EVO

* Storage

**Capacity**

250GB (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 3,400 MB/s  
\* Performance may vary based on system hardware & configuration

**Sequential Write Speed**

Up to 1,500 MB/s  
\* Performance may vary based on system hardware & configuration

**Random Read Speed**

Random Read (4KB, QD32): Up to 200,000 IOPS Random Read  
Random Read (4KB, QD1): Up to 15,000 IOPS Random Read  
\* Performance may vary based on system hardware & configuration

**Random Write Speed**

Random Write (4KB, QD32): Up to 350,000 IOPS Random Write  
Random Write (4KB, QD1): Up to 50,000 IOPS Random Write  
\* Performance may vary based on system hardware & configuration

**Controller**

Samsung Phoenix Controller

**NAND Flash**

Samsung V-NAND 3-bit MLC

**Trim Support**

Supported

**AES Encryption**

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

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

Supported

**GC (Garbage Collection)**

Auto Garbage Collection Algorithm

**Device Sleep Mode Support**

Yes

**Internal Storage**

Yes

**Temperature proof**

Yes

**NVMe**

Yes

**Gaming SSDs**

Yes

* General

**Average Power Consumption (system level)**

\* Average: 5.4 W \* Maximum: 10 W (Burst mode)  
  
\* Actual power consumption may vary depending on system hardware & configuration

**Power consumption (Idle)**

Max. 30 mW  
  
\* Actual power consumption may vary depending on system hardware & configuration

**Voltage**

3.3 V ± 5 % Allowable voltage

**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)

* Dimensions (W x H x D)

**Product**

3.16" x 0.09" x 0.87"

* Weight

**Product**

Max 0.28oz.

* Software

**Management SW**

Magician Software for SSD management

* Warranty

**Product**

5-Year Limited Warranty or 150 TBW Limited Warranty