



# Samsung 250GB 980 PRO PCIe 4.0 x4 M.2 Internal SSD

\$94.95

## Product Images





## Short Description

Built using their V-NAND 3-bit MLC flash technology and Elpis controller, the 250GB 980 PRO PCIe 4.0 x4 M.2 Internal SSD from Samsung offers an M.2 2280 form factor and a PCIe 4.0 x4 / NVMe 1.3 interface to deliver sequential read speeds of up to 6400 MB/s and sequential write speeds of up to 2700 MB/s. Users will also have access to encryption via TCG/Opal 2.0 and MS eDrive, while a TBW (Total Bytes Written) rating of 150TB helps ensure a long operational life.

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## Features

### General Features

- Sequential reads of up to 6400 MB/s and sequential writes of up to 2700 MB/s with a PCIe 4.0 interface which is 2x faster than PCIe 3.0 and 12x faster than Samsung SATA SSDs.
- Intelligent TurboWrite 2.0 maximizes PCIe 4.0 write performance with enlarged TurboWrite regions

- The Samsung 980 PRO provides an endurance rating of up to 150TB
- A nickel-coated controller and a heat spreader label help the 980 PRO effectively dissipate the heat
- Samsung Dynamic Thermal Guard technology maintains the 980 PRO's temperature at optimal level
- Power efficiency (performance/watt) is improved by up to 65% vs. the 970 EVO Plus
- The 980 PRO comes in a compact M.2 2280 form factor and is backward compatible with PCIe 3.0

# SAMSUNG UNLOCKS ULTRA-FAST PCIE 4.0 SPEEDS WITH 980 PRO SSDS



Faster storage can help with more than just the basics of storing and moving files. It can improve performance of your computer and operating system, as well as give a boost to gaming and make your creative editing programs run smoother. Now for the latest and greatest tech to hit consumer storage: PCIe 4.0 NVMe M.2 SSDs. Samsung has come through for us all with the **980 PRO series**.



Samsung 1TB 980 PRO PCIe 4.0 x4 M.2 Internal SSD

Building on its hugely popular and impressive 970 PRO drives, the Samsung 980 PRO offers compatibility for PCIe 4.0 interfaces, which will unlock read speeds of up to an incredible 7000 MB/s. Write is no slouch either, since that can top out at 5000 MB/s. If you haven't moved on from conventional SATA-based SSDs yet, this means you can see an improvement of 12.7x and, even with the current-gen PCIe 3.0 M.2 drives, you'll see up to twice the speed.



Samsung took care to ensure top-tier performance, starting with custom-designed V-NAND and DRAM and topped off with Samsung's Dynamic Heat Guard Technology. Computers can run hard and get hot quickly; this system should help keep performance consistent over time.



It can be easy to overlook storage, but with the dramatic uptick in cameras able to shoot 6K and 8K footage, as well as raw video, having a lot of ultra-fast storage will be essential to smooth editing. And we can't forget the gamers looking to get an edge and max out their settings for a truly enjoyable experience.



At launch, Samsung is offering the 980 PRO PCIe 4.0 x4 M.2 SSD in **250GB**, **500GB**, and **1TB** varieties. You shouldn't even worry if you don't have a PCIe 4.0 system quite yet because these drives are backward compatible and will provide you one more way to get ahead of the curve when you do decide to upgrade.

## Samsung 980 PRO Specs

### Storage

Drive Capacity 250.00 GB

### Performance

Interface PCIe 4.0 x4

Random Read Speed 22,000 IOPS  
500,000 IOPS

Random Write Speed 22,000 IOPS  
600,000 IOPS

Sequential Read Speed 6400 MB/s

Sequential Write Speed 2700 MB/s

### Physical

Drive Type SSD

Form Factor M.2 2280

### HDD Specs

Flash Controller Samsung Elpis

### Reliability / Data Integrity

Encryption 256-Bit AES Hardware Encryption

Endurance (Total Bytes Written) 150 TB

### Electrical

Power Draw 5.0 mW (Standby)

### General

Dimensions (W x H x D) 3.16 x 0.89 x 0.09" / 8.03 x 2.26 x 0.23 cm

Weight 0.12 lb / 0.05 kg

Warranty Length Limited 5-Year Warranty

### Packaging Info

Package Weight 0.2 lb

Box Dimensions (LxWxH) 12.2 x 7.5 x 5.5"

## Additional Information

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Brand	Samsung
SKU	MZ-V8P250B/AM
Weight	1.2000
Storage Type	M.2 SSD
Storage Form Factor	M.2 2280
Storage Capacity	250 GB

