

990 PRO PCIe 4.0 NVMe M.2 SSD



MZ-V9P1T0BW

4.8 (36)

- Samsung NVMe™ SSD powered by latest in-house controller.
- Up to 7,450 / 6,900 MB/s sequential read/write speed.
- Experience performance of PCIe® Gen 4.0.

Choose your Colour

Colour: Black



Choose your Memory

1TB 2TB 4TB

Offer



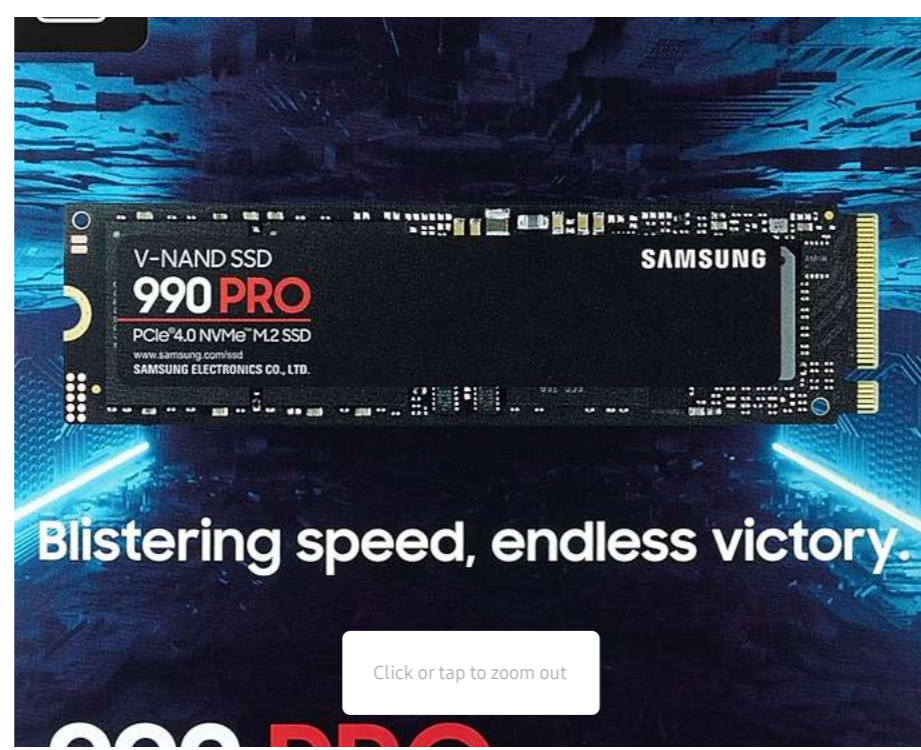
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990 PRO PCIe 4.0 NVMe M.2 SSD
Black | 1TB

£96.00

ADD TO BASKET

WHERE TO BUY



Images (8)



Superb SSD for gaming enthusiasts

Reach max performance of PCIe® 4.0.
Experience longer-lasting, opponent-blasting speed.
The in-house controller's smart heat control delivers supreme power efficiency while maintaining ferocious speed and performance, so you can stay at the top of your game.



* PCIe 4.0's best theoretical sequential read is 8000 MB/s - 990 PRO reaches 7450 MB/s as of Q3, 2022.

PCIe 4.0 speed maximised

Huge speed boost.
40% and 55% faster random read/write speeds than 980 PRO - up to 1400K/1550K IOPS, while sequential read/write speeds up to 7450/6900 MB/s reach near max performance of PCIe® 4.0. Fly high in gaming, video and 3D editing, data analysis, and more.



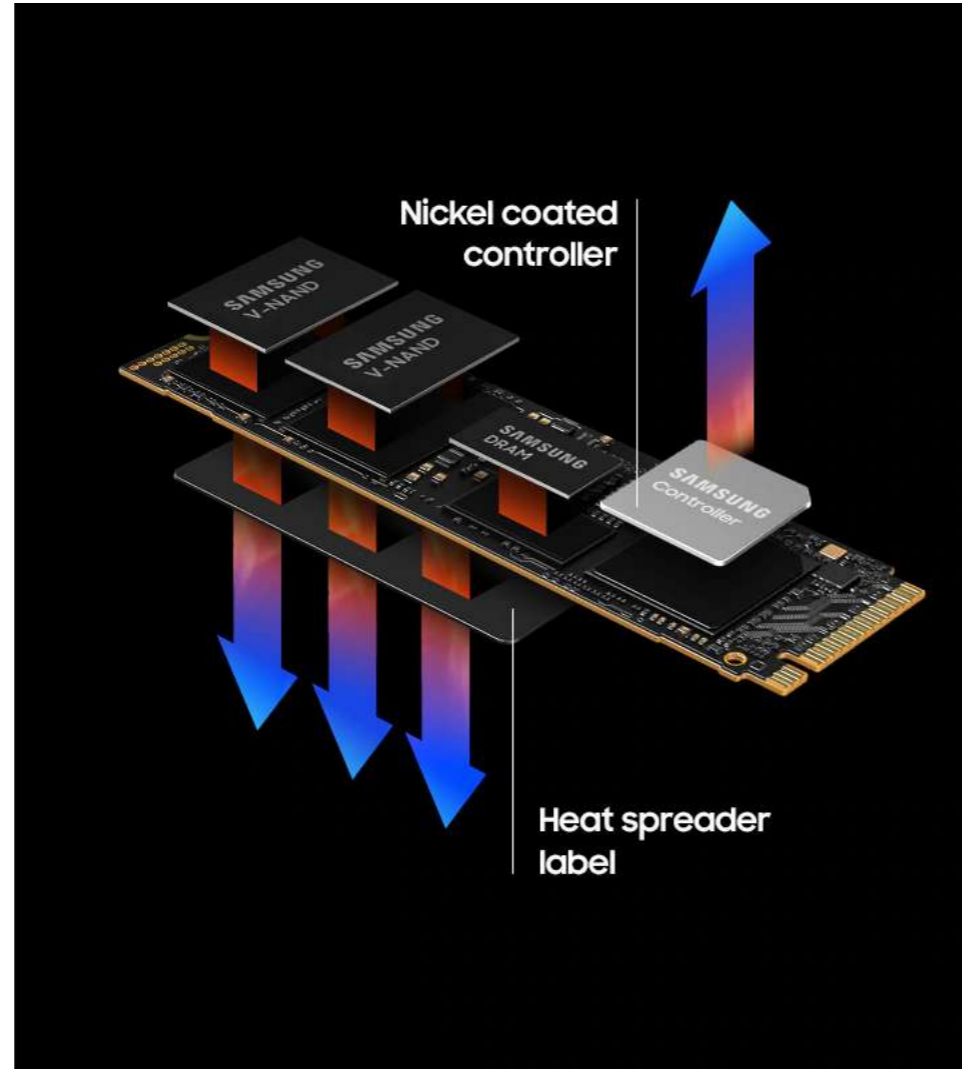
* Sequential and random write performance was measured with Intelligent Turbo Write technology being activated. Intelligent Turbo Write operates only within a specific data transfer size. Performance may vary depending on SSD's firmware, system hardware & configuration and other factors. For detailed information, please contact your local service center. * Test system configuration: AMD Ryzen 7 5800X 8-Core Processor, CPU@3.80GHz, DDR4 3600MHz 16GB, PCIe 5600 Overclock, OS - Windows 10 Pro 64bit, Chipset - ASRock X570 Taichi™ To maximize the performance of the 990 PRO, please check whether your system supports PCIe 4.0 at the Intel or AMD website. *4TB to be released in 2023.

Breakthrough power efficiency

More power-efficient performance.
Higher performance usually consumes more power. But, 990 PRO uses less power with over 50% improved performance per Watt over 980 PRO. This low-power design makes max PCIe® 4.0 performance possible with optimal power efficiency.



*990 PRO Sequential Read/Write - 1129/877 MB/Watt, 990 PRO Sequential Read/Write - 1380/1319 MB/Watt based on internal test result of 1TB capacity model.

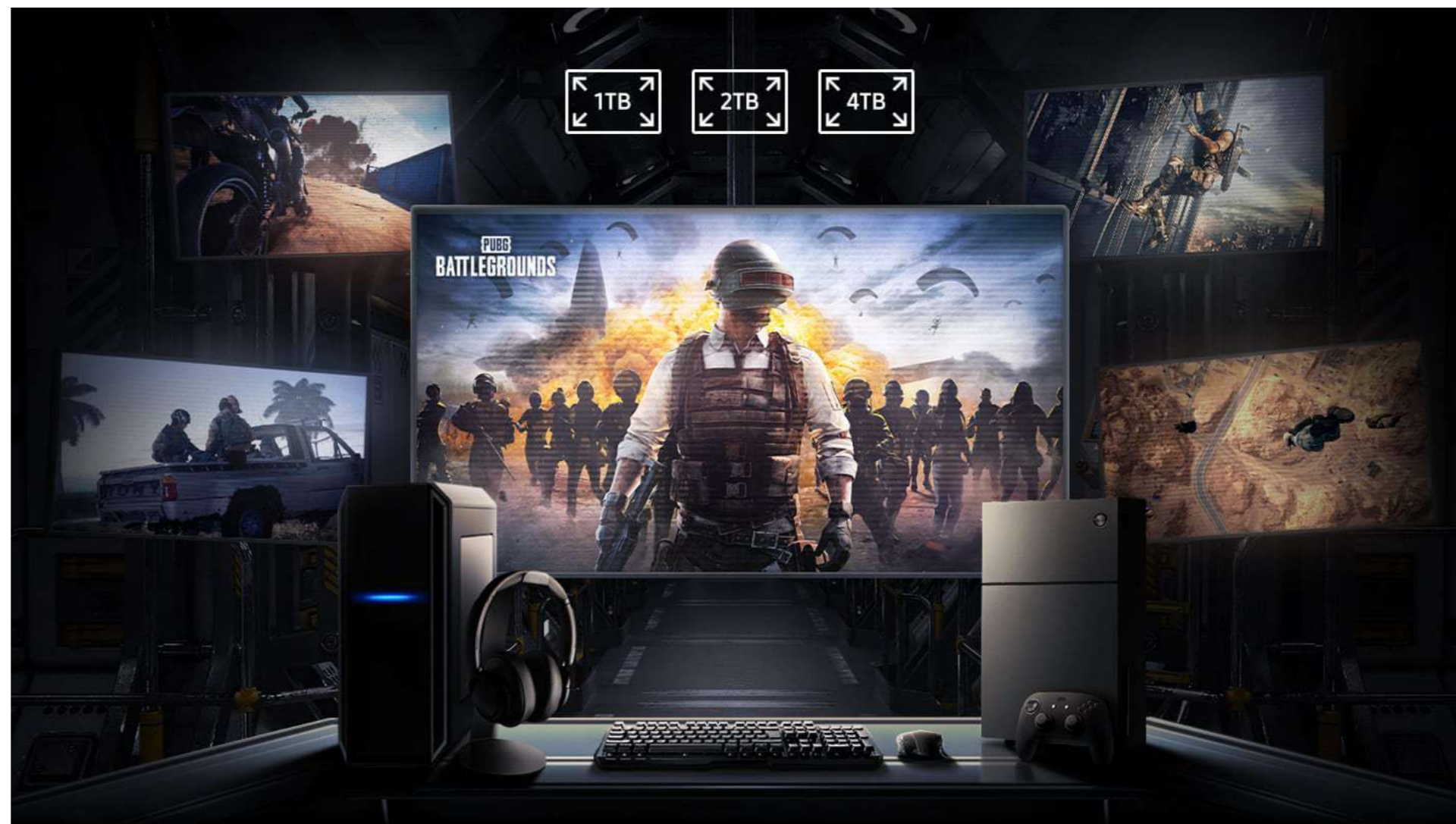


Smart thermal solution

Speed beyond the heat. The nickel-coated controller and cutting-edge thermal control algorithm manage heat for unwavering performance. The heat spreader label controls NAND chip heat, while Dynamic Thermal Guard keeps temperatures optimal.

Game like a pro

Secure victory with 990 PRO's expanded 4TB capacity, empowering you with a random read speed of up to 1,600,000 IOPS. Witness faster loading times on your PC and PlayStation® 5, as it breathes life into your games.

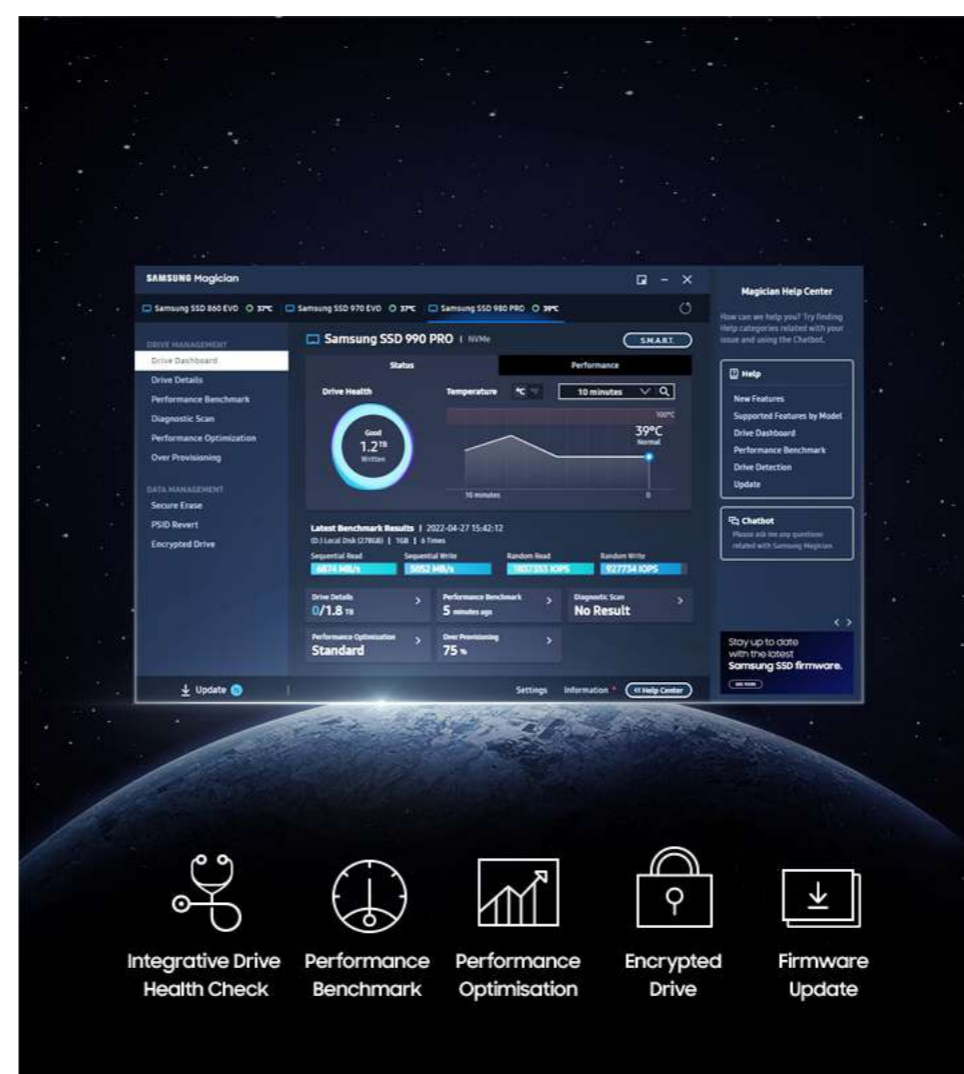


* For M2 SSD requirements for PlayStation® 5, please visit https://www.playstation.com/support/hardware/ps5-install-m2-ssd/ * The images of PUBG: BATTLEGROUNDS have been authorised for use by KRAFTON, Inc. PUBG: BATTLEGROUNDS is a registered trademark of KRAFTON, Inc. * Image simulated for illustrative purposes. Actual usage environment may vary.

Samsung Magician software

Unlock the full power of 990 PRO. Samsung Magician software's user-friendly suite of optimisation tools always gets you the best SSD performance. Protect data, get firmware updates and monitor the drive's health. Your personal SSD toolkit.

Magician software provides a toolkit to manage the 990 PRO for best performance. This toolkit supports integrative Drive health checks, performance benchmarks and optimisations, and encrypted drive and firmware updates.



- Integrative Drive Health Check
- Performance Benchmark
- Performance Optimisation
- Encrypted Drive
- Firmware Update



World's No.1 Flash Memory

Experience superior performance and reliability you only get from the world's No.1 flash memory brand since 2003. All components and firmware are produced in-house, including Samsung's world-renowned DRAM and NAND, for integrated start-to-finish quality you can trust.

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

<p>Interface</p> <p>PCIe Gen 4.0 x4, NVMe 2.0</p>	<p>Sequential Read</p> <p>Up to 7,450 MB/s * Performance may vary based on system hardware &...</p>	<p>Sequential Write</p> <p>Up to 6,900 MB/s * Performance may vary based on system hardware &...</p>
<p>Warranty</p> <p>5-Year Limited Warranty or 600 TBW Limited Warranty</p>	<p>Application</p> <p>Client PCs, Game Consoles</p>	<p>Weight</p> <p>Max 9.0g Weight</p>
<p>General Feature</p>	<p>Application Client PCs, Game Consoles</p> <p>Form Factor M.2 (2280)</p> <p>Dimension (WxHxD) 80 x 22 x 2.3 mm</p> <p>Storage Memory Samsung V-NAND 3-bit MLC</p> <p>Cache Memory Samsung 1GB Low Power DDR4 SDRAM</p>	<p>Capacity 1,000GB (1GB=1 Billion byte by IDEMA) * Actual usable capacity may be less (due to formatting, partitioning, operating system, applications or otherwise)</p> <p>Interface PCIe Gen 4.0 x4, NVMe 2.0</p> <p>Weight Max 9.0g Weight</p> <p>Controller Samsung in-house Controller</p>
<p>Special Feature</p>	<p>TRIM Support Supported</p> <p>GC (Garbage Collection) Auto Garbage Collection Algorithm</p> <p>WWN Support Not supported</p>	<p>S.M.A.R.T Support Supported</p> <p>Encryption Support AES 256-bit Encryption (Class 0)TCG/Opal IEEE1667 (Encrypted drive)</p> <p>Device Sleep Mode Support Yes</p>
<p>Performance</p>	<p>Sequential Read Up to 7,450 MB/s * Performance may vary based on system hardware & configuration</p> <p>Random Read (4 KB, QD32) Up to 1,200,000 IOPS * Performance may vary based on system hardware & configuration</p> <p>Random Read (4 KB, QD1) Up to 22,000 IOPS * Performance may vary based on system hardware & configuration</p>	<p>Sequential Write Up to 6,900 MB/s * Performance may vary based on system hardware & configuration</p> <p>Random Write (4KB, QD32) Up to 1,550,000 IOPS * Performance may vary based on system hardware & configuration</p> <p>Random Write (4 KB, QD1) Up to 80,000 IOPS * Performance may vary based on system hardware & configuration</p>
<p>Environment</p>	<p>Average Power Consumption (system level) *Average: 5.4 W*Maximum: 7.8 W (Burst mode)* Actual power consumption may vary depending on system hardware & configuration</p> <p>Allowable Voltage 3.3 V ± 5 % Allowable voltage</p> <p>Operating Temperature 0 - 70 °C Operating Temperature</p>	<p>Power consumption (Idle) Max. 50 mW * Actual power consumption may vary depending on system hardware & configuration</p> <p>Reliability (MTBF) 1.5 Million Hours Reliability (MTBF)</p> <p>Shock 1,500 G & 0.5 ms (Half sine)</p>
<p>Accessories</p>	<p>Installation Kit Not Available</p>	
<p>Software</p>	<p>Management SW Magician Software for SSD management</p>	
<p>Warranty</p>	<p>5-Year Limited Warranty or 600 TBW Limited Warranty</p>	

Hide All Specs ^

★★★★★ 4.8 | 36 Reviews
33 out of 33 (100%) reviewers recommend this product

WRITE A REVIEW

Reviews



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Select a row below to filter reviews.



Overall Rating

4.8 ★★★★★
36 Reviews

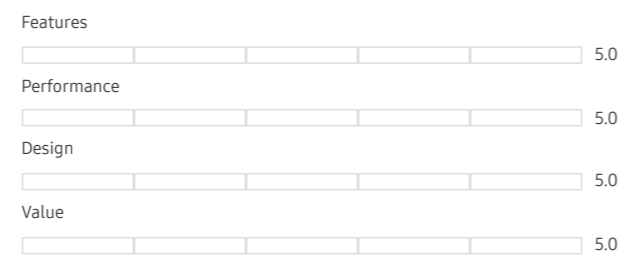
33 out of 33 (100%) reviewers recommend this product

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