

Next-level SSD performance

Unleash the power of the Samsung 980 PRO with heatsink for next-level computing. With a PCIe® 4.0 NVMe™ interface, get up to 2x the data transfer rate of PCIe® 3.0¹ while remaining compatible with PCIe® 3.0.

The integrated heatsink disperses heat to maintain speed, power efficiency, and thermal control, preventing downtime from overheating on Playstation®5 and PCs.



1TB	MZ-V8P1T0CW UPC 887276598352
2TB	MZ-V8P2T0CW UPC 887276598369

Key Features

Maximum Speed



Get read speeds up to 7,000 MB/s² with 980 PRO with heatsink and push the limits of what SSDs can do. Powered by an in-house controller designed to harmonize the flash memory components and the interface for top speed – with a PCIe® 4.0³ interface that's 2x faster than PCIe® 3.0 SSDs⁴ and 12x faster than Samsung SATA SSDs⁵ – every component of this NVMe™ SSD is manufactured by Samsung for performance that lasts.

Smart Thermal Control



High-performance SSDs require high-performance thermal control. The 980 PRO with heatsink uses Samsung's own nickel-coated high-end controller to deliver effective thermal control of the NAND chip. With the added heatsink, play confidently on PlayStation®5 gaming consoles and PC systems without worries of sudden performance drops from overheating.

A Perfect Fit for PlayStation®5



The 980 PRO with heatsink has a thin 8.6mm housing, which perfectly fits the PlayStation®5. Its slim size and optimized power efficiency are also ideal for building high-performance PC computing and gaming systems.

Samsung Magician Software



Unlock the full potential of 980 PRO with heatsink with Samsung Magician's advanced, yet intuitive, optimization tools. Monitor drive health, optimize performance, protect valuable data, and receive important updates with Magician to ensure you're always getting the best performance out of your SSD.

World's #1 Flash Memory Brand



Experience the performance and reliability from the world's number-one brand for flash memory since 2003⁶. All firmware and components, including Samsung's world-renowned DRAM and NAND, are produced in-house, allowing end-to-end integration for quality you can trust.

¹Results are based on a comparison with Samsung PCIe® 3.0 NVMe™ SSDs and SATA SSDs. ²Performance may vary depending on the SSD's firmware version and the system hardware & system configuration. Performance measurements are based on IOMeter 1.1.0. The write performances were measured with Intelligent TurboWrite technology being activated. The sequential write performances after Intelligent TurboWrite region are: up to 2,000MB/s (1TB and 2TB). ³To maximize the performance of the 980 PRO, please check whether your system supports PCIe® 4.0 at the Intel or AMD website. ⁴Results are based on a comparison with Samsung PCIe 3.0 NVMe SSDs and SATA SSDs. ⁵Test system configuration: AMD Ryzen 9 3900X 12-Core Processor CPU@3.79GHz, DDR4 2666MHz 16GBx2, OS-Windows 10 Pro 64bit, Chipset-ASUS-X570-ROG CROSSHAIR VIII FORMULA. ⁶Source: 2003-Q3 2020 IHS Markit data: NAND suppliers' revenue market share.

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*Source: 2003-Q3 2020 IHS Markit data: NAND suppliers' revenue market share.

Specifications

Interface	PCIe® Gen4. x4, NVMe™ 1.3c				
Form Factor	M.2 (2280)				
Hardware	NAND	DRAM			
	V-NAND 3bit MLC	1GB LPDDR4 (1TB) 2GB LPDDR4 (2TB)			
	Controller	In-House			
	In-House				
Capacity	1TB/2TB				
Sequential Read/Write (MB/s)	Up to 7,000/5,100				
Random Read/Write (IOPS,QD32)	Up to 1,000K				
Device Sleep	5mW				
Data Encryption	Class 0 (AES 256), TCG/Opal v2.0, MS eDrive (IEEE1667)				
Total Bytes Written	600 TBW (1TB) 1200 TBW (2TB)				
Warranty	Limited 5-year				

1TB

2TB

980 PRO with Heatsink: Gen4 PCIe® NVMe™ SSD

