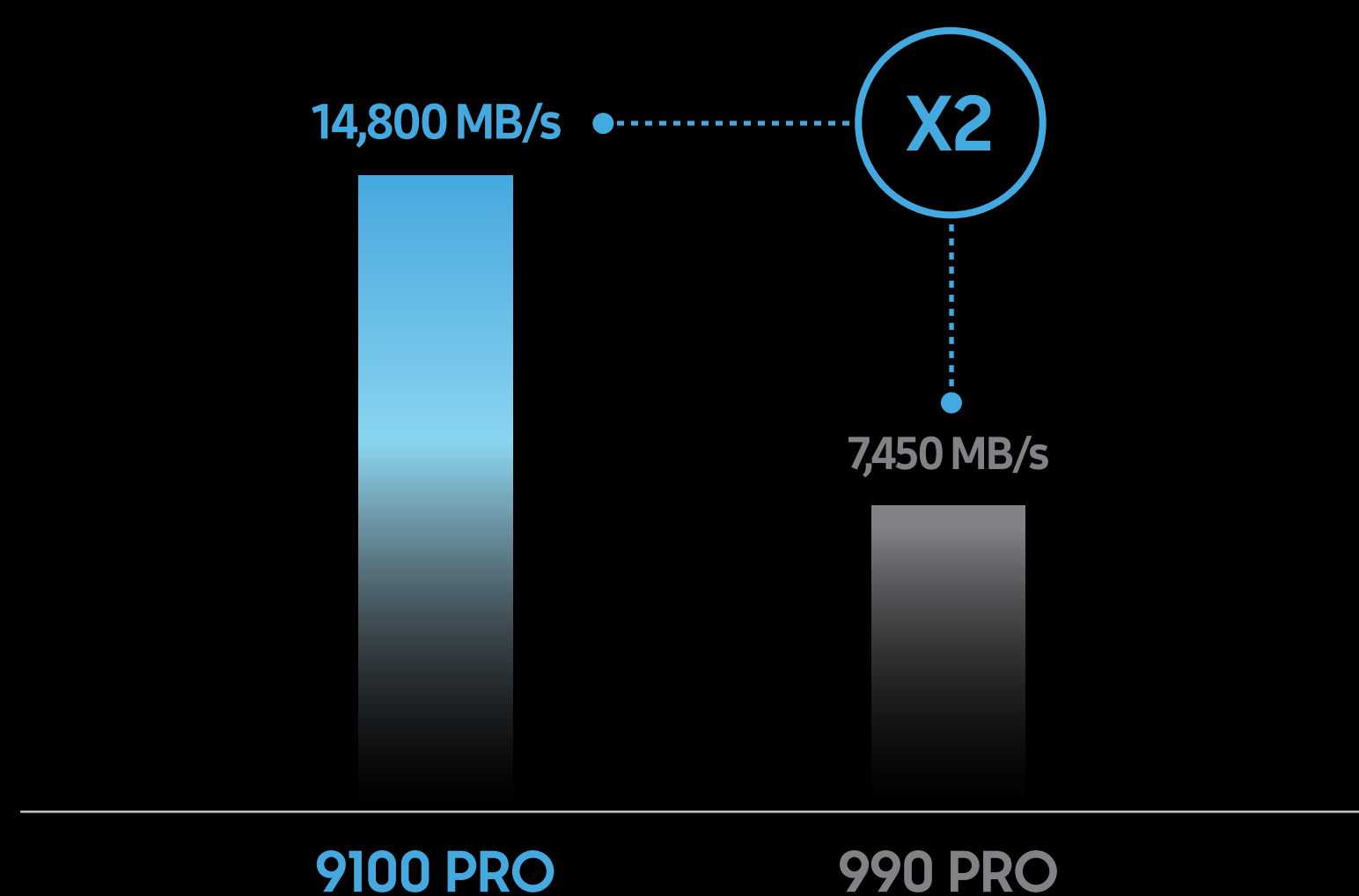


SAMSUNG

PCIe® 5.0 NVMe™ SSD 9100 PRO | 9100 PRO with Heatsink

Performance ready for a new era



The pulse of Gen5 performance

Harness the max performance of PCIe® 5.0
Experience the 9100 PRO's revolutionary jump in speed, with searing sequential read/write speeds up to 14,800/13,400 MB/s, 2X faster than 990 PRO.
Stay far ahead of the competition with random read/writespeeds up to 2,200K/2,600K IOPS, unreachable by Gen4.



Sequential read
up to **14,800 MB/s**

Sequential write
up to **13,400 MB/s**



Random read
up to **2,200K IOPS**

Random write
up to **2,600K IOPS**



Power to excel everywhere

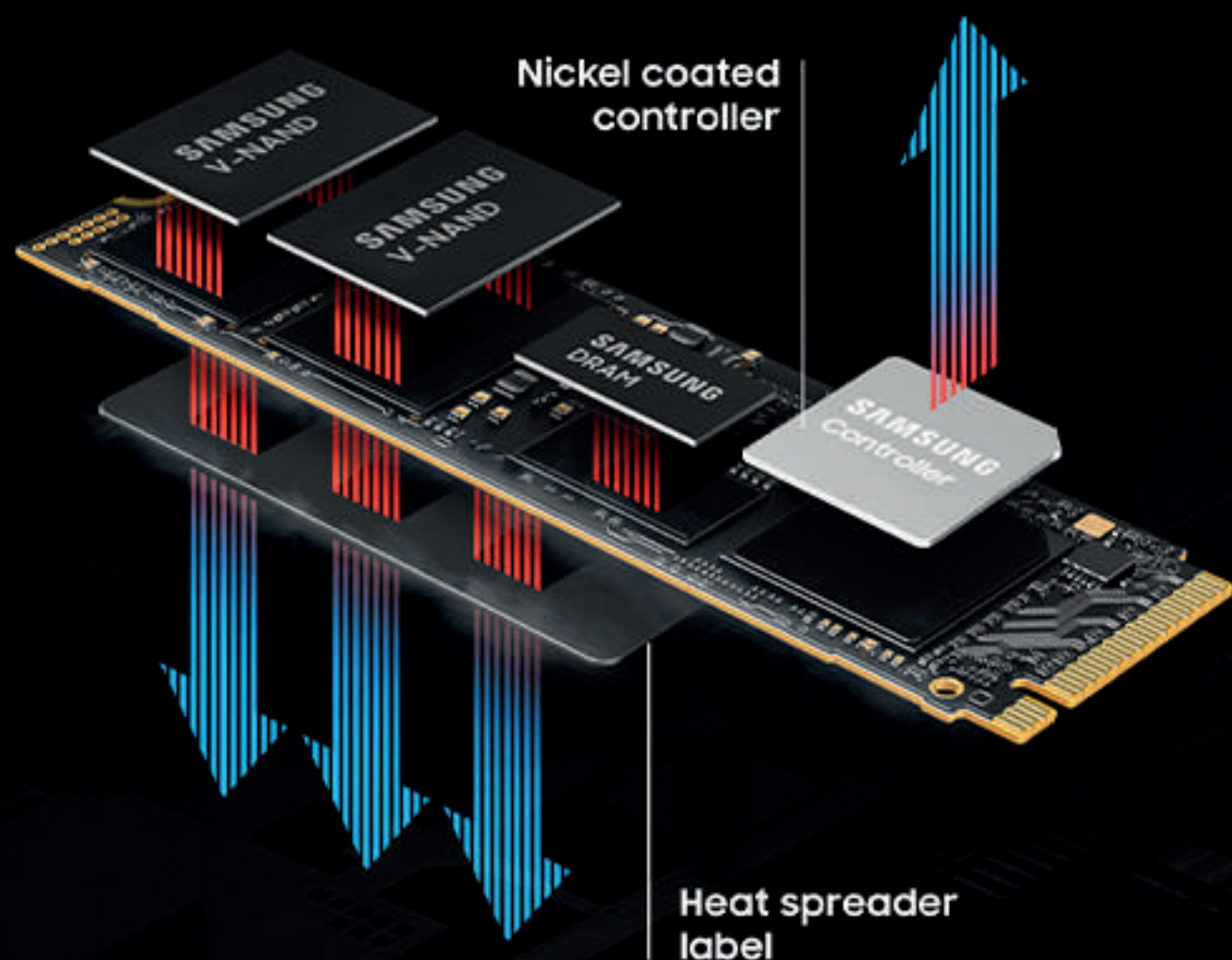
Breeze through video editing, 3D art, and high-spec games with the latest PCIe® 5.0 interfaces. Experience cutting-edge performance anytime, anywhere, on any device, and stay ready for what's ahead with up to 8TB expanded capacity.



*Availability may vary depending on market and timing.

Stay fast. Stay cool.

Blazing performance is never too hot. Discover optimal, power-efficient performance with the advanced 5nm controller, boosting power efficiency up to 49% over 990 PRO. Stay in flow state with the powerful performance of PCIe® 5.0 and no overheating, even when you run large programs for a long time.

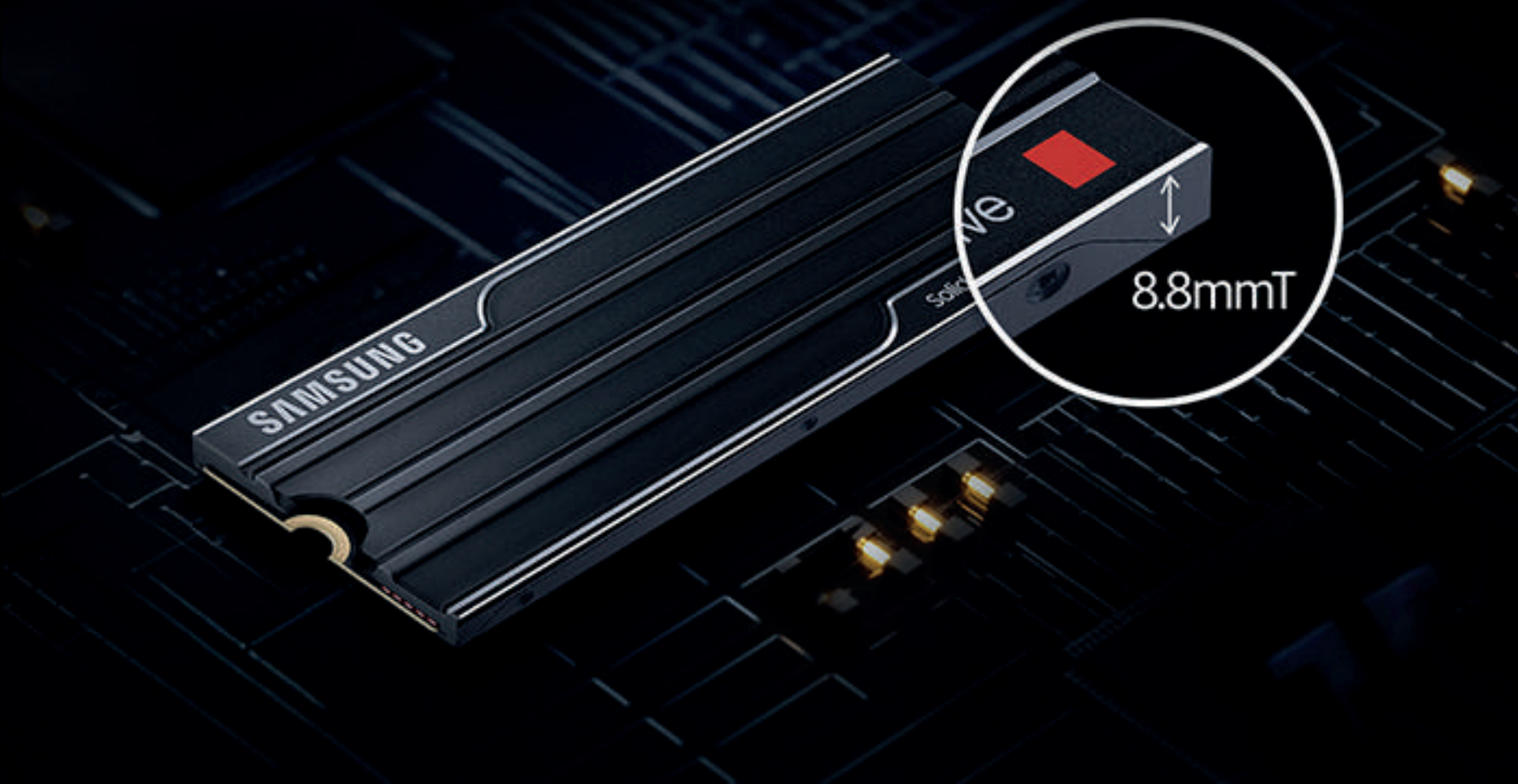


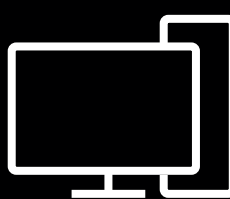
*Image shown for illustrative purposes only.
*990 PRO sequential read/write 1,221/1,255 MB/s per Watt, 9100 PRO sequential read/write 1,822/1,703 MB/s per Watt based on the internal test result of the 2TB capacity model.

Slim in every setup

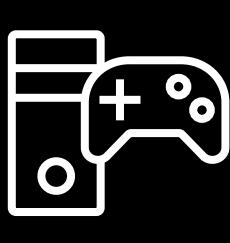
Sleek, seamless compatibility. At just 8.8mmT, the ultra-slim body fulfills PCI-SIG® D8 specs, ready to amp up your PlayStation® 5, PC, or laptop. With a compact M.2 form factor, the 9100 PRO with Heatsink maximizes board space for the freedom to build more efficient, high-performance systems.

*Image shown for illustrative purposes only.



 **Desktop PC**
In 1/2/4TB with 8.8mmT

 **Laptop**
In 1/2/4TB with 8.8mmT

 **PlayStation® 5**
In 1/2/4TB with 8.8mmT
In 8TB with 11.25mmT

Technical Specifications

9100 PRO					
Model Code		MZ-VAP1T0B	MZ-VAP2T0B	MZ-VAP4T0B	MZ-VAP8T0B
General Feature	Capacity	1TB	2TB	4TB	8TB
	Form Factor	M.2 (2280)			
	Interface	PCIe® 5.0 x4, NVMe™ 2.0			
	Dimension (WxHxD)	Max 80.15 x Max 22.15 x Max 2.38 (mm)	Max 80.15 x Max 22.15 x Max 2.38 (mm)	Max 80.15 x Max 22.15 x Max 2.38 (mm)	Max 80.15 x Max 22.15 x Max 3.88 (mm)
	Weight	Max 9.0g	Max 9.0g	Max 9.0g	Max 9.5g
	Storage Memory	Samsung V-NAND TLC			
	Controller	Samsung in-house Controller			
Performance	Sequential Read	Up to 14,700 MB/s	Up to 14,700 MB/s	Up to 14,800 MB/s	Up to 14,800 MB/s
	Sequential Write	Up to 13,300 MB/s	Up to 13,400 MB/s	Up to 13,400 MB/s	Up to 13,400 MB/s
	Random Read (4KB, QD256)	Up to 1,850K IOPS	Up to 1,850K IOPS	Up to 2,200K IOPS	Up to 2,200K IOPS
	Random Write (4KB, QD256)	Up to 2,600K IOPS	Up to 2,600K IOPS	Up to 2,600K IOPS	Up to 2,600K IOPS
Software	Management Software	Magician Software for SSD management			
Warranty	TBW	600	1,200	2,400	4,800
	Period	5-year limited warranty			

9100 PRO with Heatsink					
Model Code		MZ-VAP1T0C	MZ-VAP2T0C	MZ-VAP4T0C	MZ-VAP8T0C
General Feature	Capacity	1TB	2TB	4TB	8TB
	Form Factor	M.2 (2280)			
	Interface	PCIe® 5.0 x4, NVMe™ 2.0			
	Dimension (WxHxD)	Max 80.15 x Max 25 x Max 8.88 (mm)	Max 80.15 x Max 25 x Max 8.88 (mm)	Max 80.15 x Max 25 x Max 8.88 (mm)	Max 80.15 x Max 25 x Max 11.25 (mm)
	Weight	Max 28.0g	Max 28.0g	Max 28.0g	Max 35.0g
	Storage Memory	Samsung V-NAND TLC			
	Controller	Samsung in-house Controller			
Performance	Sequential Read	Up to 14,700 MB/s	Up to 14,700 MB/s	Up to 14,800 MB/s	Up to 14,800 MB/s
	Sequential Write	Up to 13,300 MB/s	Up to 13,400 MB/s	Up to 13,400 MB/s	Up to 13,400 MB/s
	Random Read (4KB, QD256)	Up to 1,850K IOPS	Up to 1,850K IOPS	Up to 2,200K IOPS	Up to 2,200K IOPS
	Random Write (4KB, QD256)	Up to 2,600K IOPS	Up to 2,600K IOPS	Up to 2,600K IOPS	Up to 2,600K IOPS
Software	Management Software	Magician Software for SSD management			
Warranty	TBW	600	1,200	2,400	4,800
	Period	5-year limited warranty			

*The NVMe™ design mark is a registered trademark of NVM Express, Inc.

*1GB = 1,000,000,000 bytes by IDEMA. A certain portion of capacity may be used for system file and maintenance use, so the actual capacity may differ from what is indicated on the product label.

*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.

*Five years or total bytes written (TBW), whichever comes first. For more information on the warranty, please refer to the enclosed warranty document in the package.