

Introducing the Solidigm™ P44 Pro

Media Briefing

Oct. 11, 2022



Today's Briefing

Speakers

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Agenda

- **Product overview**
- **Performance**
- **Software**
- **Q&A**

This information is being shared under embargo.
Please do not publish any information related to this launch until:

Oct. 18, 2022, at 7 a.m. Pacific Time



What is a gamer's worst enemy?

A. Malenia from *Elden Ring*

B. Emerald Weapon from *Final Fantasy VII*

C. Mike Tyson from *Punch-Out!!*

D. Load times   Loading...

INTRODUCING THE WORLD'S PREMIER ENTHUSIAST SSD



Solidigm™ P44 Pro

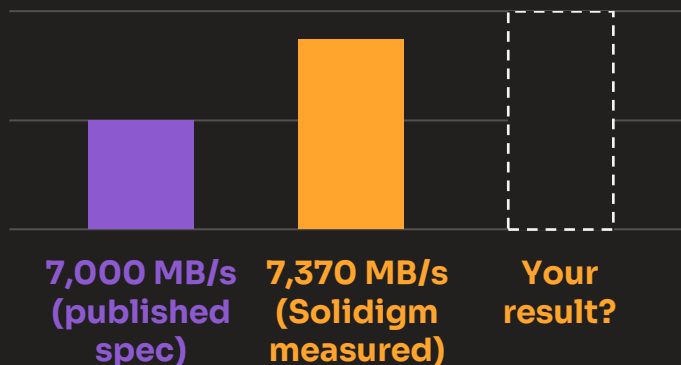
Solidigm's flagship, high-performance client SSD for gamers and content creators

About the Solidigm™ P44 Pro

FLAGSHIP PERFORMANCE

● Sequential Read	Up to 7 GB/s
Sequential Write	Up to 6.5 GB/s
Random Read	Up to 1.4M IOPS
Random Write	Up to 1.3M IOPS

HOW HIGH CAN YOU TAKE IT?



MODERN ARCHITECTURE

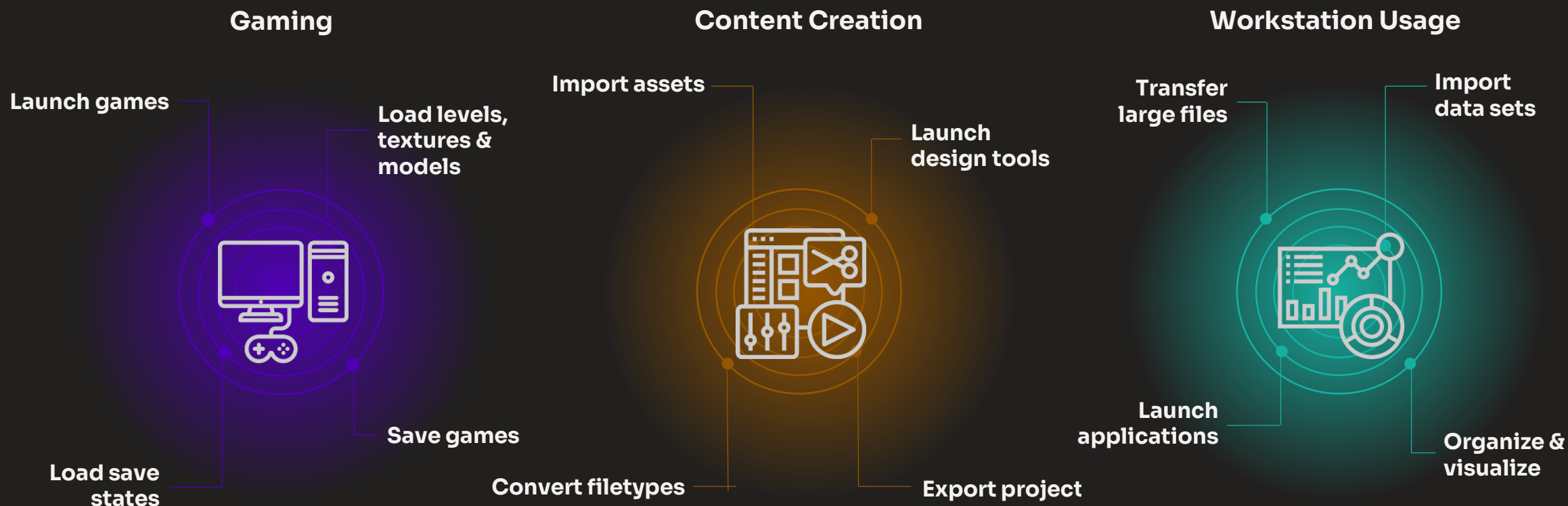
Capacities	512 GB, 1 TB, 2 TB
Interface	PCIe 4.0 (x4)
Form Factor	M.2 2280

ROCK-SOLID RELIABILITY

MTBF	1.6 million hours
Endurance Rating	512GB: 500 TBW 1TB: 750 TBW 2TB: 1,200 TBW
Warranty	5 years



Storage Performance for Heavy Workloads



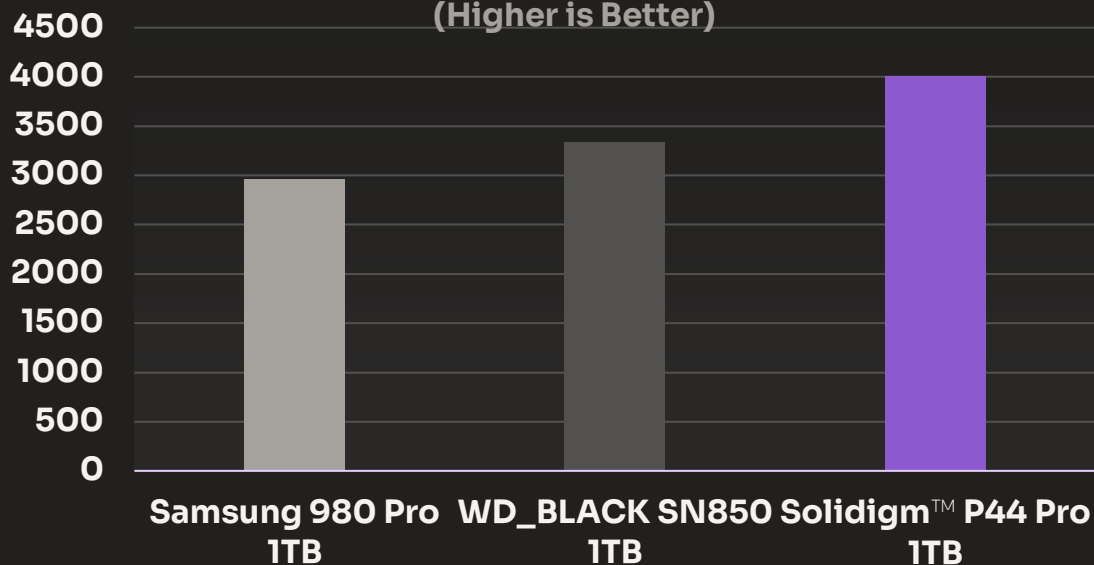


Real-World Performance

PCMark 10 by UL uses a broad set of real-world traces from popular applications – including Microsoft Office, Adobe Creative Cloud, and PC games – as well as common tasks, such as system boot and file copy, to evaluate the performance of modern SSDs.

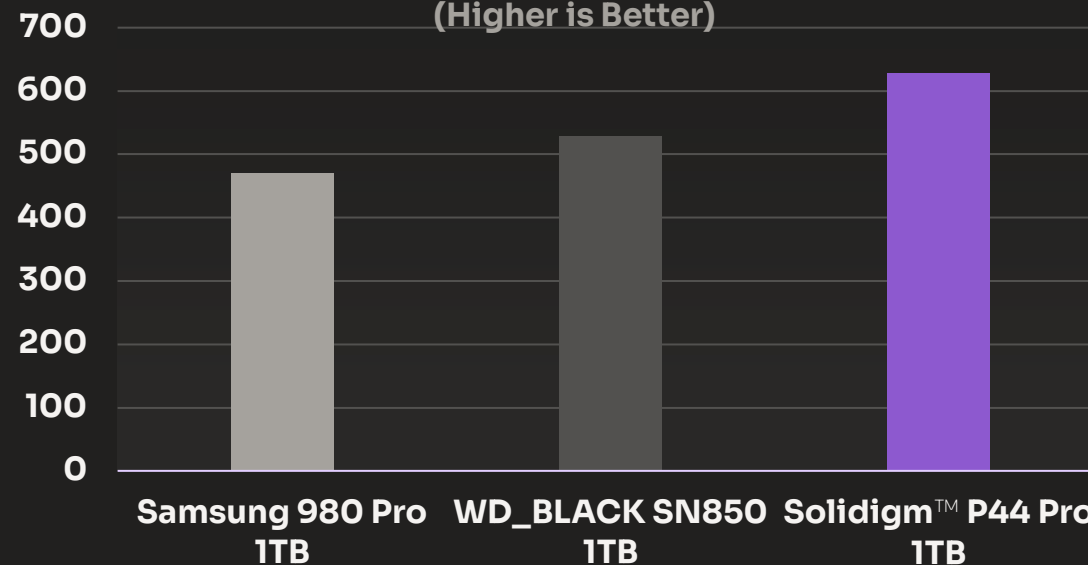
PCMark 10 Full System Drive Benchmark – Score

(Higher is Better)



PCMark 10 Full System Drive Benchmark – Bandwidth (MB/s)

(Higher is Better)



P44 Pro score exceeds competition by 35 percent

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Source: Solidigm internal research.
See system config for details.

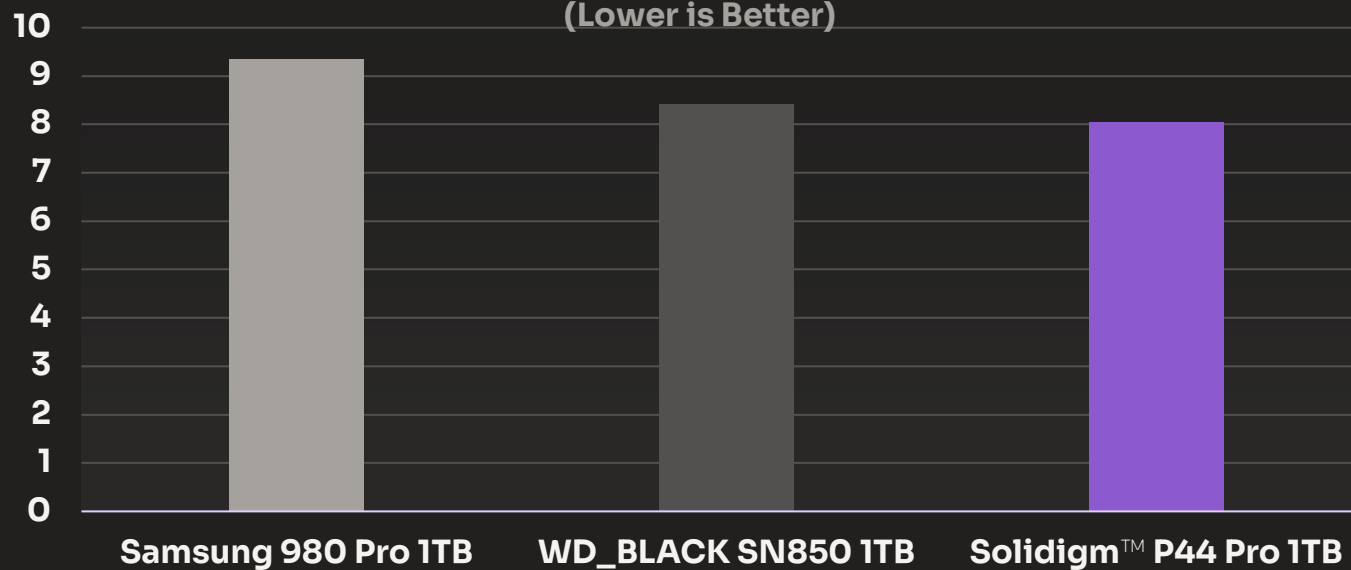


Gaming Performance

Square Enix, developer of FINAL FANTASY XIV: Endwalker, provides free benchmarking software to evaluate a PC's gaming performance. It loads and renders a set of scenes from the game and reports results including framerate and scene load times.

FINAL FANTASY XIV: Endwalker Benchmark – Total Loading Time

(Lower is Better)



P44 Pro reduces load times by up to 14 percent compared to a leading competitor

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Source: Solidigm internal research.
See system config for details.

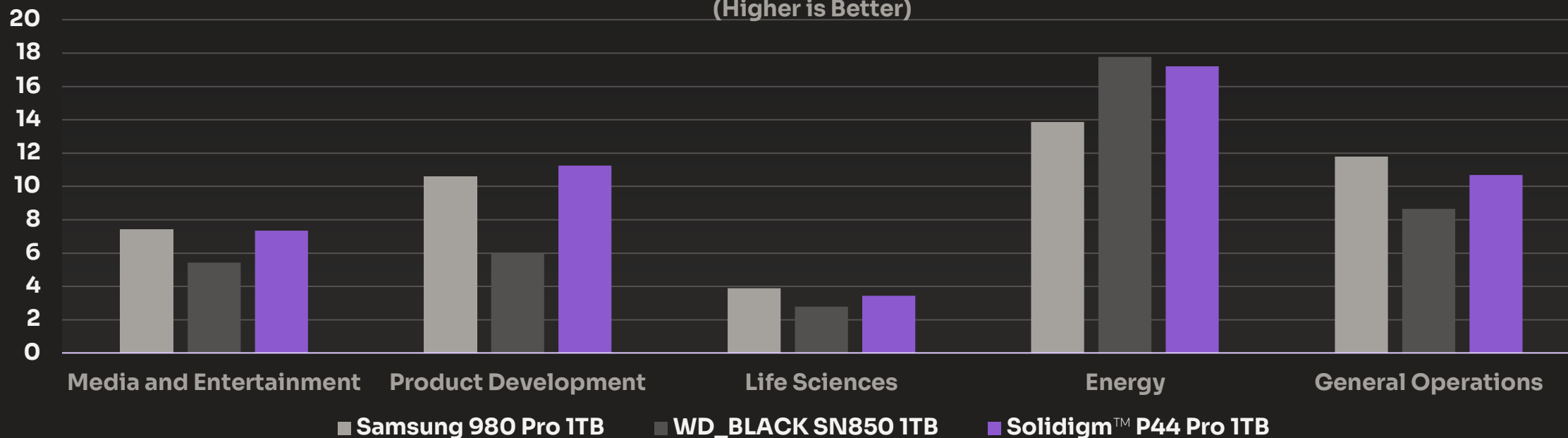


Workstation Performance

The SPECworkstation benchmark is a mix of application and trace-based workloads testing CPU, graphics, I/O, and memory bandwidth. Application categories include a variety from financial services to product development to life sciences.

SPECworkstation 3.1 – Workload Scores

(Higher is Better)



P44 Pro delivers great performance on workstation workloads

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Source: Solidigm internal research.
See system config for details.



Great Performance, Greater Efficiency



WD_BLACK SN850 (1TB)



Samsung 980 Pro (1TB)



Solidigm P44 Pro (1TB)

Read/Write Performance

Sequential (128K) Read **6.9 GB/s**
 Sequential (128K) Write **5.3 GB/s**

Sequential (128K) Read **7.1 GB/s**
 Sequential (128K) Write **5.2 GB/s**

Sequential (128K) Read **7.1 GB/s**
 Sequential (128K) Write **6.6 GB/s**

Power Consumption

Sequential (128K) Read **7.3 W**
 Sequential (128K) Write **6.1 W**

Sequential (128K) Read **5.8 W**
 Sequential (128K) Write **5.7 W**

Sequential (128K) Read **5.3 W**
 Sequential (128K) Write **5.5 W**

Power Efficiency (GB/s/W)

Sequential (128K) Read **0.95**
 Sequential (128K) Write **0.87**

Sequential (128K) Read **1.22**
 Sequential (128K) Write **0.91**

Sequential (128K) Read **1.34**
 Sequential (128K) Write **1.20**

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Solidigm Synergy™ Software

Software that enhances user experience, built on over a decade of storage software development excellence



Solidigm Storage Driver

Enhances user experience by “closing the gap” between host and storage device to automatically optimize performance



Solidigm Storage Tool

Enables users to view drive health reports and trigger useful manual functions

Available for free download at Solidigm.com

Up to
12%

Higher

Random Read Performance

Up to
26%

Higher

Random Write Performance

Up to
12%

Higher

70/30 Random R/W Performance

Source: Solidigm internal research. Results as compared to default Windows disk driver.

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Compatible with Sony PlayStation 5^{1,2}

Sony PS5

+



Enhance Your PS5 Gaming Experience³

	Onboard Storage	Samsung 980 Pro	Solidigm™ P44 Pro
Elden Ring Game Launch	11.8 sec	12.4 sec	11.7 sec
Elden Ring Continue Game	7.2 sec	7.1 sec	6.9 sec

Meets or Exceeds Sony PS5 Published Requirements⁴

	Sony Requirement	Solidigm™ P44 Pro
Interface	PCIe 4.0 x 4	PCIe 4.0 x 4
Capacity	250 GB – 4 TB	512 GB – 2TB
Form Factor	M.2 2230 – 22110	M.2 2280
Performance (Seq Read)	≥ 5.5 GB/s	7 GB/s

1. Any reference to Sony or the Sony PS5 is not an indication of endorsement by Sony.
 2. Heatsink required by Sony; bundles available at select retailers.
 3. Game launch times based on Solidigm testing.
 4. For Sony published requirements, see: <https://www.playstation.com/en-us/support/hardware/ps5-install-m2-ssd/>

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Available Worldwide in Late October

Platforms



Retailers



Worldwide Availability

System Integrators



CYBERPOWERPC



OKAYA ELECTRONICS CORP.

+ Others



Suggested Retail Price

- 512GB: \$79.99
- 1TB: \$129.99
- 2TB: \$234.99



Solidigm Client SSDs – 2022

2022

+

H2'22

Value PCIe 3.0 M.2

Intel® SSD 670p
Available All Year



512GB	1TB	2TB
80mm	80mm	80mm
Up to 3 GB/s	Up to 3.5 GB/s	Up to 3.5 GB/s
185 TBW	370 TBW	740 TBW

Value PCIe 4.0 M.2

Solidigm™ P41 Plus
Launched August 2022



512GB	1TB	2TB
80/42/30mm	80/42/30mm	80mm
Up to 3.5 GB/s	Up to 4.1 GB/s	Up to 4.1 GB/s
200 TBW	400 TBW	800 TBW

Performance PCIe 4.0 M.2

Solidigm™ P44 Pro
Launched October 2022

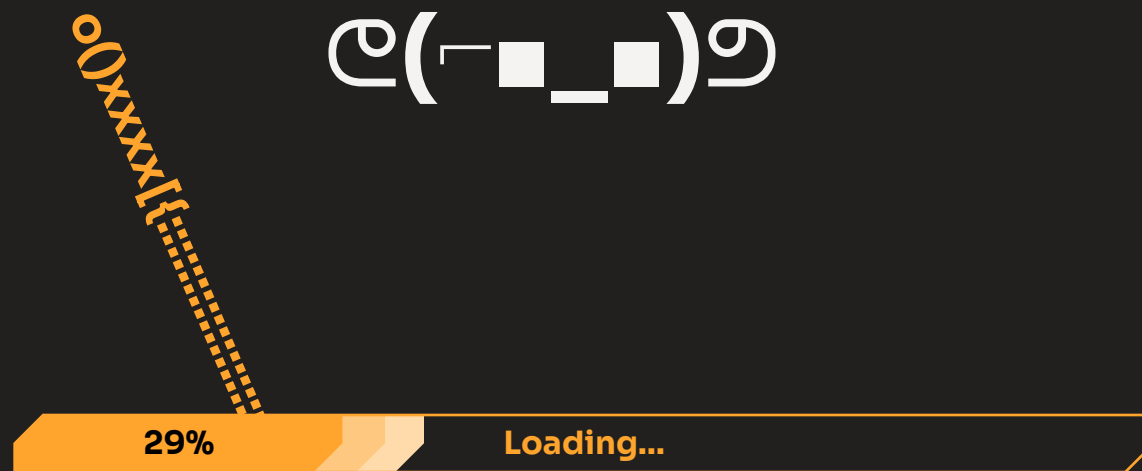


512GB	1TB	2TB
80mm	80mm	80mm
Up to 7 GB/s	Up to 7 GB/s	Up to 7 GB/s
500 TBW	750 TBW	1200 TBW

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Slay load times with Solidigm™ P44 Pro



Introducing Solidigm™ P44 Pro

Solidigm's flagship, high-performance client SSD for gamers and content creators



Blazing-fast PCIe 4.0 performance with excellent power efficiency

Built for real-world gaming & content creation use cases on modern PCs

Enhanced responsiveness with **Solidigm Synergy™** software





System Configuration & Disclaimers

Performance testing conducted on a PC with Intel Core i9-11900K CPU (3.5GHz), Z590 motherboard, and 16GB DDR4 DRAM, running Windows 11.

Performance results are based on testing as of Oct. 1, 2022.

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