



# Blazing-Fast PCIe 4.0 Performance with Excellent Power Efficiency

## Solidigm™ P44 Pro

### PRODUCT BRIEF

The P44 Pro is Solidigm's flagship, high-performance client SSD for today's most demanding workloads. With remarkably fast speed and great power efficiency, the P44 Pro is ideal for intense performance workloads like gaming, content creation, video editing, and data analysis.

### Product Overview

The P44 Pro delivers spectacular PCIe Generation 4 performance. With up to 7000 MB/s sequential read speeds, the P44 Pro is a winning combination of speed and efficiency in a compact M.2 form factor.



### Key Features

#### **Built for gaming & content creation on modern PCs and workstations**

Solidigm has taken a thorough approach to client workload analysis and SSD design across many use cases – from daily student and office work to enthusiast-level gaming and content creation – to understand the actual components of user experience. As a result, Solidigm has designed the P44 Pro to work best for the real-world gaming and content creation use case and workloads on modern PCs and workstations.

#### **Power and Thermal Efficiency**

The P44 Pro is optimized for power savings and thermal efficiency to help deliver consistent performance with minimal throttling. So, game harder and game longer without concerns about performance loss due to excessive power and heat.

#### **Endurance and Reliability**

The P44 Pro is durable, allowing you to write more data and read it back with fewer errors over the life of your SSD. You can write hundreds of GB to the drive every day over a five-year warranty period, enabling you to rely on the P44 Pro to provide consistent high performance for the life of your SSD.

#### **Enhanced Responsiveness with Solidigm Synergy™ Software**

Combine the P44 Pro with optional Solidigm Synergy software, downloadable free of charge, for a complete client storage solution. Solidigm Synergy enhances performance with a new level of communication between the P44 Pro and your Windows PC, enabling the SSD to optimize your data for quickest access. For information on Solidigm Synergy and free download, see [www.solidigm.com/synergy](http://www.solidigm.com/synergy)

**Ready for Use in Sony PlayStation 5<sup>1,2</sup>**

Uplevel your gaming experience and add the P44 Pro to your Sony PS5 gaming console. With blazing-fast PCIe 4.0 performance and efficient power/heat architecture, the P44 Pro meets or exceeds published requirements for the Sony PS5. For details from Sony requirements on its and installation, see here: [Sony requirements](#)

**Solidigm P44 Pro Specifications**

Available Capacities	512GB	1TB	2TB
<b>Performance Specifications</b>			
Sequential Bandwidth - 100% Read (up to)	7000 MB/s	7000 MB/s	7000 MB/s
Sequential Bandwidth - 100% Write (up to)	4700 MB/s	6500 MB/s	6500 MB/s
Power - Active Sequential Write <sup>3</sup>	7.5 W		
Power - Idle/PS3 <sup>4</sup>	< 50 mW		
Power - Idle/PS4 <sup>5</sup>	< 5 mW		
<b>Reliability</b>			
Vibration - Operating	2.0 G (20-2000Hz)		
Vibration - Non-Operating	2.0 G (20-2000Hz)		
Shock (Operating and Non-Operating)	1,500 G (Max) at 0.5 msec 1,500 G (Max) at 0.5 msec		
Operating Temperature Range	0°C to 70°C		
Operating Temperature (Maximum)	70 °C		
Operating Temperature (Minimum)	0 °C		
Endurance Rating (Lifetime Writes)	500 TBW	750 TBW	1200 TBW
Mean Time Between Failures (MTBF)	1.6 million hours		
Uncorrectable Bit Error Rate (UBER)	< 1 sector per 10 <sup>15</sup> bits read		
Warranty Period	5 years		

Available Capacities	512GB	1TB	2TB
<b>Package Specifications</b>			
<b>Form Factors</b>	M.2 22 x 80mm		
<b>Interface</b>	PCIe 4.0 x4   NVMe 1.4		
<b>Advanced Specifications</b>			
<b>Hardware Encryption</b>	AES 256-bit Encryption, TCG Pyrite Supported		
<b>End-to-End Data Protection</b>	Supported		
<b>NSIT Secure Erase</b>	Supported		

## About Solidigm

We're technology-driven and customer-inspired. We bring inventive, industry-changing data storage solutions that transform the way data is used and experienced. Our unsurpassed commitment to customer success enhances your ability to fuel your purpose and change the world.

## Our Team

We're inventors, engineers, and problem solvers. We're a team that believes in data's unlimited potential to improve the world and fuel human advancement. Together, we will lead Solidigm and our industry into a new era of excellence, redefining the idea of data storage.

## Why We Do What We Do

We believe that advancements in storage technology are critical to unlocking data's unlimited potential. We are united by a shared commitment to breaking barriers and turning that potential into reality. By reinventing how data is stored, accessed, and put to work in new ways, we empower our customers and unlock data's ability to do good.

## Built on Decades of Innovation

Solidigm launched when SK hynix acquired Intel's NAND and solid-state storage (SSD) business.

For more information about Solidigm see: <https://www.solidigm.com/en/about-us.html>

## How to Order

The Solidigm P44 Pro is available now and can be ordered from various resellers and distributors. For a list of authorized resellers and distributors, see:

<https://www.solidigm.com/en/products/authorized-distributors.html>

## For More Information

For more information about the Solidigm P44 Pro see: Client Products | Solidigm

Or visit [www.solidigm.com](http://www.solidigm.com)

## Notes

- 1) Any reference to Sony or the Sony PS5 is not an indication of endorsement by Sony.
- 2) Heatsink is required by Sony for use in PS5. SSD + heatsink bundles will be available for purchase at select retailers.
- 3) Power measured during 128 KB sequential writes with Queue Depth 32 workload using 100 ms sample period. This represents power that would be thermal load on system during heavy workload.
- 4) Power consumption during PCIe L1.2 link state with NVMe PS3.
- 5) Power consumption during PCIe L1.2 link state with NVMe PS4 for lowest power consumption.



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