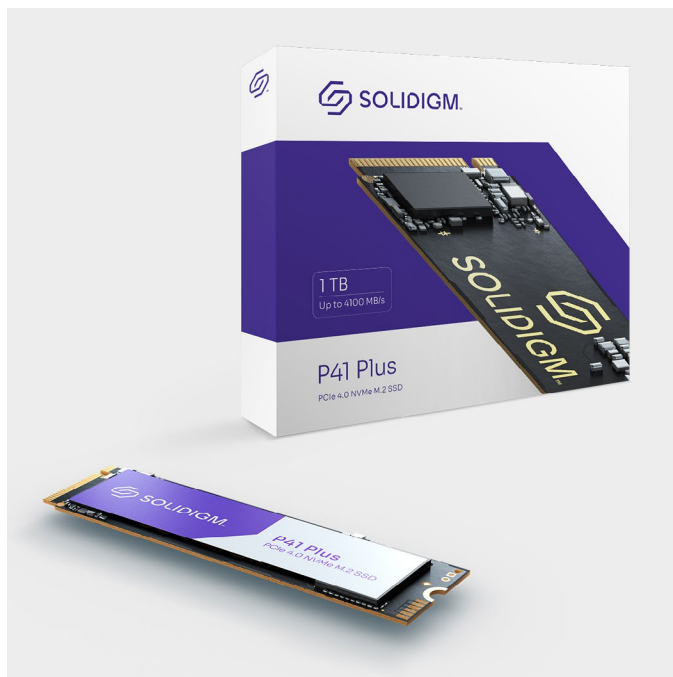# SOLIDIGM™

Solidigm™ P41 Plus

PRODUCT BRIEF

Excellent Performance for Everyday Work and Play

The P41 Plus is an innovative PCIe 4.0 SSD that delivers an excellent value to PC users for everyday productivity and gaming. The free, optional Solidigm Synergy software enhances performance even further by optimizing the relationship between PC and SSD.

Product Overview

The P41 Plus features 144-layer 3D NAND, a PCIe 4.0 interface, and is available in an M.2 2280 form factor in capacities of 512GB, 1TB, and 2TB.

Capable of delivering up to 4,125 MB/s sequential read speed, the P41 Plus represents a breakthrough in cost efficiency, delivering great performance at a price that won't break the budget for everyday PC users.

Key Features

Performance with Impact on real-world workloads

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 P41 Plus to work best for the real-world workloads and applications that you use daily.

Power and Thermal Efficiency

The P41 Plus is optimized for power savings and thermal efficiency to help deliver consistent performance with minimal throttling.

Endurance and Reliability

The P41 Plus is highly 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 P41 Plus to provide consistent high performance for the life of your SSD.

Increased Performance and Consistency with Solidigm Synergy

Unlock the true performance of your SSD with the free downloadable Solidigm Synergy™ Software, optimized when paired with a Solidigm™ P41 Plus SSD. Achieve consistent performance even as your drive fills up with up to 120%* faster read speeds for faster access to games, design or work files, and up to 20%** faster random write speeds to get a more robust and responsive PC experience while navigating through day-to-day tasks.

For information on Solidigm Synergy, see
www.solidigm.com/synergy

*   Iometer 4K random read test (8GB span, 300 seconds) with drives at 50% full.
       Configuration: Intel Core i7-11700K, 16GB RAM, P41 Plus 1TB.
** CrystalDiskMark 8.0.4 RND4K Q1T1 write test. Configuration: Intel Core i7-
       11700K, 16GB RAM, P41 Plus 1TB.

Available Capacities	512GB	1TB	2TB
Performance Specifications			
Sequential Bandwidth - 100% Read (up to)	3500 MB/s	4125 MB/s	4125 MB/s
Sequential Bandwidth - 100% Write (up to)	1625 MB/s	2950 MB/s	3325 MB/s
Random Read IOPS (up to)	390K		
Random Write IOPS (up to)	540K		
Power - Active	80mW		
Power - Idle	25mW		
Reliability			
Vibration - Operating	2.17 GRMS (5-700Hz)		
Vibration - Non-Operating	3.13 GRMS (5-700Hz)		
Shock (Operating and Non-Operating)	1,000 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)	200 TBW	400 TBW	800 TBW
Mean Time Between Failures (MTBF)	1.6 million hours		
Uncorrectable Bit Error Rate (UBER)	< 1 sector per 10^{15} bits read		
Warranty Period	5 years		
Package Specifications			
Form Factors	M.2 22 x 80mm		
Interface	PCIe 4.0 x4	NVMe		
Advanced Specifications			
Hardware Encryption	No		
End-to-End Data Protection	Yes		
NSIT Secure Erase	No		

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 P41 Plus is available now and orderable with various retailers and distributors, see:

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

For More Information

For more information about the Solidigm P41 Plus see: https://www.solidigm.com/en/products/client-products.html

Or visit www.solidigm.com

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