

Cloud Inspired. Storage Optimized.

Solidigm™ D5-P5316 (formerly Intel®)



Unlock the Value of Stored Data

- Based on PCIe Gen4 technology
- Accelerates stored data by up to 25x¹ compared to HDDs
- Up to 38% higher random read performance², up to 48% better latency³, and up to 5x higher endurance versus previous generation Solidigm SSD family⁴

Accelerate a Range of Data Center Workloads

- Designed to optimize and accelerate storage within Data center workloads such as Content Delivery Networks (CDN), Hyper Converged Infrastructure (HCI), Big Data, and other applications
- Accelerates a broad range of read workloads as well as large block sequential/random writes, while maintaining fast response times
- Supports all write sizes with a Quality of Service improvement scheme that maintains low read latency under write pressure

Firmware Enhancements for Drive Performance, IT Efficiency, Data Security, & Manageability

- Compliant to industry standards, including NVMe 1.3c and NVMe-MI1.0a
- Persistent Event Log exposes deeper drive history for debugging at scale
- Designed to enhance security with AES-256 Hardware Encryption, NVMe Sanitize, and Firmware Measurement

HPE Selection Guide



Solidigm™ D5-P5316

Form Factor	Capacity	DWPD
U.2 15 mm	15.36 TB	0.41
U.2 15 mm	30.72 TB	0.41

1. Sequential read performance based on Intel® SSD D5-P5316 compared to Seagate Exos X18 (seagate.com/files/www-content/datasheets/pdfs/exos-x18-channel-DS2045-1-2007GB-en_SG.pdf).

2. Up to 38% higher random read - Comparing 4K random read between Intel® SSD D5-P5316 15.36TB (800K IOPS) and Intel® SSD D5-P4326 15.36TB (580K IOPS).

3. Up to 48% better latency performance at 99.999%: Source-Intel product specification. Comparing measured performance for 4KB Random Read, QD1 latency performance at 99.999% between Intel® SSD D5-P5316 15.36TB with Intel® SSD D5-P4326 15.36TB. Measured performance are 600us and 1150 us for Intel® SSD D5-P5316 and Intel® SSD D5-P4326 respectively. Percentage change is 48%.

4. Up to 5x higher endurance gen over gen - Comparing endurance (64K random write) between Intel® SSD D5-P5316 30.72TB (22,930 TBW) and Intel® SSD D5-P4326 15.36TB (4,400 TBW).