

Controller

PS5016-E16

Capacity ¹	500GB	1000GB	2000GB
Interface	PCIe Gen4x4 NVMe 1.3		
Form Factor	M.2 2280-D2		
NAND Flash	3D TLC		
Performance (Up to)^{2, 3, 4}			
Sequential Read	5000 MB/s	5000 MB/s	5000 MB/s
Sequential Write	2500 MB/s	4400 MB/s	4400 MB/s
4K Random Read	400K IOPS ^(*a) 400K IOPS ^(*b)	750K IOPS ^(*a) 600K IOPS ^(*b)	750K IOPS ^(*a) 600K IOPS ^(*b)
4K Random Write	550K IOPS ^(*a) 500K IOPS ^(*b)	750K IOPS ^(*a) 500K IOPS ^(*b)	750K IOPS ^(*a) 500K IOPS ^(*b)
Power			
Supply Voltage	M.2 3.3V ± 5		
Active (Average) ⁵	Read : 6.2W Write : 4.6W	Read : 6.1W Write : 5.9W	Read : 6.7W Write : 6.6W
Idle			
Low Power PS4 (L1.2)	2 mW	2 mW	2 mW
Temperature			
Operating	0°C - 70°C		
Non-Operating	0°C - 85°C		
Advanced Features	<ul style="list-style-type: none"> • End-to-End Data Protection • Pyrite Support • Thermal Monitoring 		

¹ 1GB = 1,000,000,000 bytes

² 1MB/s = 1,000,000 bytes / second

³ Sequential Performance is based on Crystal Disk Mark 6.0.0, test size 1GiB, and test drive set as secondary

⁴ Random Performance is based on IOMeter, 1GB range, 4K data size, QD=128

(*a) Performance is based on Intel Gen3 Z270 + PLDA Gen4 switch

(*b) Performance is based on AMD Gen4 X570 + 8 Core CPU

⁵ Measured with Crystal Disk Mark