

Solutions

PS3112-S12

Capacity ¹	128GB	256GB	512GB	1TB	2TB
Interface	SATA Gen III				
Form Factor	2.5"				
NAND Flash	3D TLC				
Performance (Up to)^{2,3}					
Sequential Read	550 MB/s	550 MB/s	550 MB/s	550 MB/s	550 MB/s
Sequential Write	530 MB/s	530 MB/s	530 MB/s	530 MB/s	530 MB/s
4K Random Read	94K IOPS	98K IOPS	99K IOPS	99K IOPS	99K IOPS
4K Random Write	90K IOPS	90K IOPS	90K IOPS	91K IOPS	90K IOPS
Power					
Supply Voltage	5V±5%				
Active (Average) ⁴	2.0W	2.0W	2.0W	2.1W	2.2W
Idle	0.1W	0.1W	0.1W	0.1W	0.1W
DEVSLP	5mW	5mW	5mW	5mW	5mW
Temperature					
Operating	0°C~70°C				
Non-Operating	-40°C~85°C				
Advanced Features	<ul style="list-style-type: none"> • End-to-End Data Protection • Thermal Protection Mechanism (Thermal Throttling) • TCG OPAL with AES-256bit XTS hardware encryption • RSA 2048-SHA 256 for secure boot and secure firmware download • Tamper-evidence protection • FIPS 140-2 lv2 certified (certificate #3758) 				

¹ 1GB = 1,000,000,000 bytes

² 1MB/s = 1,000,000 bytes / second

³ Performance is based on Crystal Disk Mark 6.0.0 for sequential test and Iometer for random test. Test size 1GiB. Test drive is set as secondary

⁴ Measured power consumption during sequential read/write test on Crystal Disk Mark 6.0.0