

## Solutions

## PS5012-E12

Capacity <sup>1</sup>	256GB	512GB	1TB	2TB
Interface	PCIe Gen3x4 NVMe			
Form Factor	M.2 2280			
NAND Flash	3D TLC			
<b>Performance (Up to)<sup>2,3,4</sup></b>				
Sequential Read	3300 MB/s	3400 MB/s	3400 MB/s	3400 MB/s
Sequential Write	1300 MB/s	2500 MB/s	3100 MB/s	3000 MB/s
4K Random Read	210K IOPS	420K IOPS	700K IOPS	700K IOPS
4K Random Write	320K IOPS	635K IOPS	690K IOPS	680K IOPS
<b>Power</b>				
Supply Voltage	3.3V±5%			
Active Read (Average) <sup>5</sup>	4.7W	4.9W	5.3W	5.6W
<b>Idle</b>				
Low Power PS4 (L1.2)	2mW	2mW	2mW	2mW
<b>Temperature</b>				
Operating	0°C - 70°C			
Non-Operating	-40°C - 85°C			
<b>Advanced Features</b>	<ul style="list-style-type: none"> <li>• End-to-End Data Protection</li> <li>• Thermal Protection Mechanism (Thermal Throttling)</li> <li>• TCG OPAL with AES-256bit XTS hardware encryption</li> <li>• RSA 2048-SHA 256 for secure boot and secure firmware download</li> <li>• Tamper-evidence protection</li> <li>• FIPS 140-2 lv2 certified (certificate #3758)</li> </ul>			

<sup>1</sup> 1GB = 1,000,000,000 bytes

<sup>2</sup> 1MB/s = 1,000,000 bytes / second

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

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

<sup>5</sup> Measured with Crystal Disk Mark