

Controller

**PS3111-S11T**

Interface	SATA III						
Form Factor	2.5"	M.2 2280, mSATA	M.2 2242, CFast	mSATA mini	Half-Slim	SVFM	BGA SSD
NAND Flash	2D SLC, 2D MLC, 3D TLC			2D MLC, 3D TLC			
Capacity <sup>1</sup>	4GB to 1TB	4GB to 1TB	4GB to 512GB	4GB to 64GB	4GB to 128GB	4GB to 128GB	4GB to 256GB
<b>Performance (Up to)<sup>2,3</sup></b>							
Sequential Read	550 MB/s				335 MB/s	550 MB/s	
Sequential Write	500 MB/s				220 MB/s	480 MB/s	
4K Random Read	82K IOPS				31K IOPS	81K IOPS	
4K Random Write	86K IOPS				40K IOPS	74K IOPS	
<b>Power</b>							
Supply Voltage	5V ± 5%	3.3V ± 5%	3.3V ± 5%	3.3V ± 5%	5V ± 5%	5V ± 5%	3.3V ± 5%
Max (Average)	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Active (Average) <sup>4</sup>	1960 mW	1960 mW	2100 mW	1320 mW	1360 mW	990 mW	1600 mW
Idle	315 mW	315 mW	290 mW	315 mW	315 mW	310 mW	316 mW
DEVSLP	5 mW	5 mW	5 mW	5 mW	5 mW	5 mW	8 mW
<b>Temperature</b>							
Operating	0°C - 70°C -40°C - 85°C						
Non-Operating	-40°C - 85°C						
Advanced Features	<ul style="list-style-type: none"> <li>• Intelligent FW Technology on Data Reliability :               <ol style="list-style-type: none"> <li>1) SmartECC™: LDPC + RAID ECC</li> <li>2) SmartFlush™</li> </ol> </li> <li>• Intelligent FW Technology on Data Loss Protection :               <ol style="list-style-type: none"> <li>1) Data Loss Protection End-to-End Data Protection (ETEDPP)</li> <li>2) GuaranteedFlush™ (Optional)</li> <li>3) SmartRefresh™</li> </ol> </li> <li>• SmartZip™</li> <li>• Security Function(Optional): Write Protect, Quick Erase, Data Destroy</li> </ul>						

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

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

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

<sup>4</sup> Measured with MobileMark 2014