

Industrial PS3111-S11 2.5" SATA SSD

Phison's 2.5" SATA Solid State Disk (SSD) delivers all the advantages of flash disk technology with Serial ATA III interface, including being fully compliant with standard 2.5-inch form factor. The device is designed based on the standard 7-pin interface for data segment and 15-pin for power segment, as well as operating at a maximum operating frequency of 300MHz with 30MHz external crystal. Its capacity could provide a wide range up to 512 GB for MLC application; reach up to 550MB/s read as well as 490MB/s write high performance based on Toshiba's 15 nm MLC flash.



Product Specification and Features

Capacity	2GB up to 512GB	
SATA Interface	SATA Revision 3.2 SATA 1.5Gbps, 3Gbps, and 6Gbps interface	
Flash Interface and Support	15nm MLC/ Pseudo SLC , SLC, 3D TLC 1 pcs to 4 pcs TSOP/BGA flash	
Performance (Max)	Read/Write: Up to 550/490 MB/s IOPS: Up to 84K/85K	
Power Consumption ^{Note1}	Active mode: < 2,630 mW Idle mode: < 318 mW	
TBW (Terabytes Written) ^{Note1}	544 TBW for 512GB MLC;	
MTBF	≥ 2,000,000 hours	
Advanced Technology	Default: SMART ECC™(LDPC+RAID ECC), SmartRefresh™, End to End Data Path Protection, SmartZIP™, SmartFlush™ Optional: GuaranteeFlush™	
Specific Feature	Thermal Sensor	Support
	HW Write protect	Optional
	Quick/ Destroy/ Military Erase	Optional
Operating Temperature	Silver grade: 0°C ~ 70°C ; Diamond grade: -40°C ~ 85°C	
Environment	Storage Temperature: -40°C ~ 85°C Vibration: 80Hz~2000Hz@20G Mechanism Shock (operation/ non-operating): 1500G@0.5ms	
RoHS and Halogen Free compliant	Support	

Physical Dimension

- ❖ 100.00mm (L) x 69.85mm (W) x 7.00mm (H)

