

Industrial PS3109-S9 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 256 GB for MLC application; reach up to 520MB/s read as well as 180MB/s write high performance based on Toshiba's 15 nm MLC flash.



Product Specification and Features

Capacity		4GB up to 256GB
SATA Interface		SATA Revision 3.2 SATA 1.5Gbps, 3Gbps, and 6Gbps interface
Flash Interface and Support		15nm MLC/ Pseudo SLC , 24nm SLC. 1 pcs to 4 pcs TSOP/BGA flash
Performance (Max)		Read/Write: Up to 520/180 MB/s IOPS: Up to 32K/21K
Power Consumption ^{Note1}		Active mode: < 1,980 mW Idle mode: < 325 mW
TBW (Terabytes Written) ^{Note1}		635 TBW for 256 GB MLC; 3,448 TBW for 64GB SLC
MTBF		≥ 2,000,000 hours
Advanced Technology		Default: Smart Refresh™,, Smart Flush™ Optional: Guaranteed Flush™
Specific Feature	Thermal Sensor	Optional
	AES 256bit	Optional
	HW Write protect	Optional
	Quick/ Destroy/ Military Erase	Optional
	pFail Protection Circuit	N/A
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)

