

PS3109-S9 mSATA (Reference Design)

Phison's PS3109 mSATA delivers all the advantages of flash disk technology with the Serial ATA I/II/III interface and is fully compliant with the standard mSATA form factor. PS3109 mSATA is a small form factor with the advantages of high density, fast read/write performance and low power consumption. Moreover, the small size of the PS3109 mSATA makes it an ideal SSD solution for space-restricted devices and an alternative to the 2.5-inch SSDs.



Product Specification

Capacity	4GB ~ 256GB
SATA Interface	SATA Revision 3.0 SATA 1.5Gbps, 3Gbps, and 6Gbps interface
Flash Interface	Flash Type: SLC, MLC 1pcs to 4pcs of TSOP/BGA flash
Performance*	Read: up to 510 MB/s Write: up to 200 MB/s
Power Consumption*	Active mode: < 1950 mW Idle mode: < 285 mW DEVSLP mode: < 5 mW
MTBF	More than 1,000,000 hours
Advanced Flash Management	Static and Dynamic Wear Leveling, Bad Block Management, TRIM, SMART, Over-Provision, Firmware Update
Operating Voltage	3.3V
Operating Temperature	0°C ~ 70°C
Storage Temperature	-40°C ~ 85°C

* Performance and Power Consumption may differ according to flash type, flash configuration, SDR configuration, and platform.