

## PS3109-S9 M.2 2242

### (Reference Design)

Phison's PS3109 M.2 2242 delivers all the advantages of flash disk technology with the Serial ATA I/II/III interface and is fully compliant with the standard Next Generation Form Factor (NGFF) called M.2 Card Format. PS3109 M.2 2242 is designed to maximize the usage of card space to meet the size limitation of tablets, notebooks and other very thin devices. With a wide range of capacity, high read/write performance, and low power consumption, PS3109 M.2 2242 is an ideal embedded solution for new platforms.



## Product Specification

<b>Capacity</b>	4GB ~ 128GB
<b>Form Factor</b>	M.2 2242-D3-B-M
<b>SATA Interface</b>	SATA 1.5Gbps, 3Gbps, and 6Gbps interface
<b>Flash Interface</b>	Flash Type: SLC, MLC 1pcs to 2pcs of LGA/BGA flash 1pcs to 2pcs of TSOP flash (Toggle MLC only)
<b>Performance*</b>	Read: up to 510 MB/s Write: up to 200 MB/s
<b>Power Consumption*</b>	Active mode: < 1730 mW Idle mode: < 285 mW DEVSPLP mode: < 5 mW
<b>MTBF</b>	More than 1,000,000 hours
<b>Advanced Flash Management</b>	Static and Dynamic Wear Leveling, Bad Block Management, TRIM, SMART, Over-Provision, Firmware Update
<b>Operating Voltage</b>	3.3V
<b>Operating Temperature</b>	0°C ~ 70°C
<b>Storage Temperature</b>	-40°C ~ 85°C

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