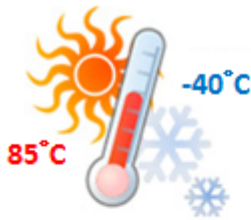


## Industrial 1.8" SATA SSD

Phison's 1.8" SATA SSD delivers all the advantages of Flash Disk technology with Serial ATA III interface, including being fully compliant with standard 1.8-inch form factor, providing low power consumption compared to traditional hard drive and hot-swapping when removing/replacing/upgrading flash disks. The capacity could provide a wide range up to 512GB and the performance reach up to 500MB/s read as well as 480MB/s write based on Toshiba's toggle MLC flash. Meanwhile, the power consumption is much lower than traditional Hard Drives.



### Product Feature



#### ..... Rugged

- Tough industrial PCB design for military and industrial application.
- Working on wide temperature for system operation everywhere.
- Seal around BGA chips to have stronger connection of signals.



#### ..... Durable

- High efficiency of flash wear leveling to get larger total write byte.
- Lower Write Amplification Factor (WAF) to get much more times of host data write.
- Quick and smart flash management to collect garbage data.



#### ..... Reliable

- High ECC bits to correct bit errors from flash memory.
- Over 3,500 power cycling test for data integrity as power loss.
- pSLC technology support.
- Self-Burn-In to screen out early bad blocks before shipment.

Main use	Common interfaces
Storage, Recording, Back up, Boot device, Database	Server, NAS, SAN, Surveillance, Industrial PC/machines

### Specification

<b>Solution</b>	<b>PS3108-S8</b>
<b>Capacity</b>	16GB ~ 512GB
<b>Compliance</b>	SATA 3.0
<b>Flash Memory</b>	SLC/pSLC/MLC
<b>Performance*<sup>1</sup></b>	Read: up to 500 MB/s Write: up to 480 MB/s
<b>Power Consumption*<sup>1</sup></b>	Active mode: < 3,500 mW
<b>Operating Voltage</b>	DC 3.3V
<b>Operating Temperature</b>	0°C ~ 70°C (Silver) -40°C ~ 85°C (Diamond)
<b>Reliability*<sup>2</sup></b>	IEC-60068, IEC-61000, MIL-STD-810, ISTA 2 Series (Mechanical Shock Operation Test 1500 G, 0.5ms, Bending/Torque test, Drop test...)
<b>MTBF</b>	More than 1,000,000 hours
<b>Quality</b>	Products are tested with both operational and non-operational status to ensure the highest qualities.

\*<sup>1</sup> Performance and Power Consumption may differ according to flash type, flash configuration, and platform.

\*<sup>2</sup> All reliability tests follow international standards

### Features Support

○: Optional    ⊙: Default

Solution	1	2	3	4	5	6	7	8	9	10
PS3108-S8		⊙	⊙	⊙	⊙	⊙	⊙	○	○	○

1. DEVSLP mode

2. Static/Dynamic Wear leveling

3. ECC (Error Correcting Code)

4. Power Loss Protection

5. SMART Function

6. TRIM

7. Over-Provision

8. pSLC Support

9. Conformal Coating

10. Secure Erase