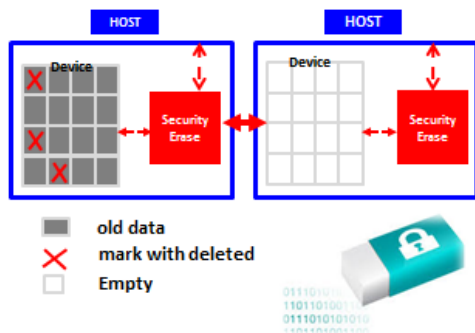


## Industrial 1.8" PATA SSD

Phison's 1.8" PATA solid state drive (SSD) is a non-volatile storage disk. With the advantages of lower power consumption, greater ruggedness, higher MTBF and other attracting features, SSD is becoming the mainstream to replace conventional hard disk drive (HDD). Due to lack of any mechanical components, SSD provides a more robust and cost effective storage solution for any embedded application. Since SSD is implemented with a standard ATA interface that is fully compatible with traditional HDD, designers will find SSD as an easy solution for integration in PC-based systems.



### Product Feature



- **Secure Erase**
- ☞ Secure Erase is a standard ATA CMD and will write all "0xFF" to fully wipe all the data on hard drives and SSDs.
- ☞ Phison have tool which can implement this function to erase its storage blocks and return to its factory default settings.

Phison's care application



**PhiMonitor**  
 All Phison SSD can support S.M.A.R.T., and we can also customize additional monitoring attributes based on customer requirements.

● **Care**

Main use	Common interfaces
Storage, Recording, Back up, Boot device, Database	Server, Industrial PC/machines, Military/Defense & Aero, Transportation System, Telecommunication, and Digital Signage

### Specification

<b>Solution</b>	<b>PS3016-P9</b>
<b>Capacity</b>	1~256GB
<b>Compliance</b>	Standard ATA/IDE Bus Interface
<b>Flash Memory</b>	SLC/MLC/pSLC
<b>Performance*<sup>1</sup></b>	Read: up to 80 MB/s Write: up to 65 MB/s
<b>Power Consumption*<sup>1</sup></b>	Active mode: < 1200 mW
<b>General Applications</b>	Storage, Recording, Back up, Boot device, and Database in Server, Industrial PC/machines, Military/Defense & Aero, Transportation System, Telecommunication, and Digital Signage interfaces.
<b>Operating Voltage</b>	DC 3.3V and 5.0V
<b>Operating Temperature</b>	0°C ~ 70°C (Silver) -40°C ~ 85°C (Diamond)
<b>Reliability*<sup>2</sup></b>	ATA serial specification, IEC, MIL-STD-810, ISTA 2 Series
<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
PS3016-P9	⊙	⊙	⊙	○	○	○	○

1. Error Correction Code (ECC)
2. Static/Dynamic Wear leveling
3. Bad Block Management
4. Secure Erase

5. Detect device info/ Health card tool
6. Write Protect
7. pSLC