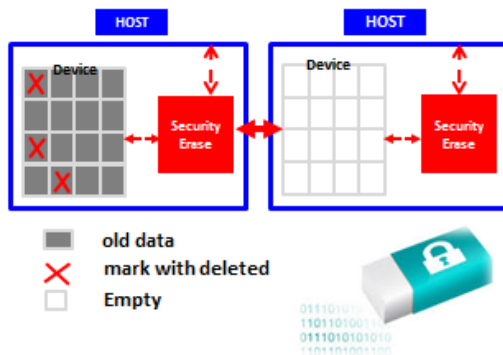


## Industrial 2.5" PATA SSD

Phison's 2.5" PATA Solid State Disk (SSD) is a non-volatile, solid state data storage system, and has become a more popular storage media solution, compared to a 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 comes with a standard ATA interface which is fully compatible with traditional HDD, designers will find 2.5" PATA SSD as an easy solution for integration in PC-based system.



### 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>	1~512GB
<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: < 1500 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. pSL