

A1000 series



Introduction

Specifications and performance of HIKSEMI A1000 series SSD.

Relying on Hikvision's security background, it is committed to developing four major businesses, including solid-state drives, memory cards, private network disks, and mobile storage. It has a sound supply chain system and perfect after-sales process. At the technical level, the A1000 series SSD adopts advanced SSD master control and 3D NAND Flash technology, with NAND Flash management software independently developed by HIKVISION to ensure read and write speed and data security. At the product level, A1000 series SSDs use the highest quality 3D NAND Flash and BGA patches, which are produced by automated production lines and tested by Hikvision's strict standards to ensure stable service. A1000 series SSD can be widely used in personal computers, game consoles and other equipment to provide stable and high-speed services for the target system.

Features

- High R/W Speed PCIe interface

Max. read speed up to 2500 MB/s.

- 3D NAND Technology

3D NAND technology helps to develop higher capacity, performance, and stability.

- Anti-shock and anti-fall

No mechanical structure, using electronic chip control, data more secure.

- Application Field

Applicable to personal computers, laptops, etc.

Ordering Information

| Capacity | Model |
|----------|--------------------|
| 128G | HS-SSD-A1000 128G |
| 256G | HS-SSD-A1000 256G |
| 512G | HS-SSD-A1000 512G |
| 1024G | HS-SSD-A1000 1024G |

Note

Please contact the local sales for detailed model information.

Specification

| Model | A1000 series | | | |
|---------------------------|----------------|-----------|-----------|-----------|
| Capacity | 128GB | 256GB | 512GB | 1024GB |
| Form Factor | M.2 2280 | | | |
| Max. Seq. Read | 1200 MB/s | 2280 MB/s | 2500 MB/s | 2450 MB/s |
| Max. Seq. Write | 950 MB/s | 1800 MB/s | 1025 MB/s | 2450 MB/s |
| Max. Ran 4 K Read (IOPS) | 55 K | 90 K | 55 K | 146 K |
| Max. Ran 4 K Write (IOPS) | 180 K | 320 K | 225 K | 128 K |
| Max. Power Consumption | 1.3 W | 1.6 W | 2.2 W | 3.1 W |
| TBW | 80 TB | 100 TB | 120 TB | 240 TB |
| MTBF | 1,500,000 h | | | |
| Storage Medium | 3D NAND | | | |
| Interface | PCIe | | | |
| Working Temperature | 0 °C ~ 70 °C | | | |
| Storage Temperature | -40 °C ~ 85 °C | | | |
| TRIM | Supports | | | |
| Warranty | 3 years | | | |
| Weight | ≤7g | | | |

Note

1. Specifications are subject to change without notice.
2. 1 MB=1,000,000Bytes, 1 GB=1,000,000,000Bytes, Unformatted Capacity. User accessible capacity may vary depending on operating environment and formatting.
3. Operating Temperature (0 °C ~70 °C) is subject to SSD's S.M.A.R.T. display.

Revision History

| Version | Description | Date |
|---------|--------------|----------|
| V1.0.0 | A1000 series | 20221028 |

Data subject to change without notice.

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The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the HIKSTORAGE website (www.hiksemitech.com).