



FUTURE Eco series

Introduction

Specifications and performance of HIKSEMI FUTURE Eco series SSD.

HIKSEMI has a sound supply chain system and perfect after-sales process. At the technical level, FUTURE Eco series SSD adopts advanced SSD master control and 3D NAND Flash technology, together with the NAND Flash management software independently developed by HIKSEMI, to ensure read and write speed and data security. At the product level, FUTURE Eco series SSDs use the highest quality 3D NAND Flash and BGA patches, which are produced by automated production lines and tested by Hiksemi's strict standards to ensure stable service. FUTURE Eco series SSD can be widely used in personal computers, game consoles and other devices to provide stable and high-speed services for the target system.

Features

- Extremely fast read and write

PCIe interface with a maximum read speed of 5000 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, PS5, etc.

Ordering Information

| Capacity | Model |
|----------|--------------------------|
| 512GB | HS-SSD- FUTURE Eco 512G |
| 1024GB | HS-SSD- FUTURE Eco 1024G |
| 2048GB | HS-SSD-FUTURE Eco 2048G |



Note

Please contact the local sales for detailed model information.

Specification

| Model | FUTURE Eco series | | |
|---------------------------|---|-----------|-----------|
| Capacity | 512GB | 1024GB | 2048GB |
| Form Factor | M.2 2280 | | |
| Max. Seq. Read | 5000 MB/s | 5000 MB/s | 4850 MB/s |
| Max. Seq. Write | 2500 MB/s | 4600 MB/s | 4450 MB/s |
| Max. Ran 4 K Read (IOPS) | 430K | 880K | 650K |
| Max. Ran 4 K Write (IOPS) | 530K | 880K | 580K |
| Max. Power Consumption | 1.1W | 1.7W | 2.5W |
| TBW | 900TB | 1800TB | 3600TB |
| MTBF | 2,000,000 hours | | |
| Storage Medium | 3D TLC | | |
| Interface | PCIe Gen4x4 | | |
| Working Temperature | 0 °C to 70 °C (32 °F to 158 °F) | | |
| Storage Temperature | -40 °C to 85 °C (-40 °F to +185 °F) | | |
| Function | AES-256/SM4/TCG-Opal 2.0/IEEE1667 Third-generation Agile ECC technology (4K LDPC), end-to-end data protection RAID5 & 6 | | |
| Warranty | 5 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 | FUTURE Eco series | 20230112 |

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).