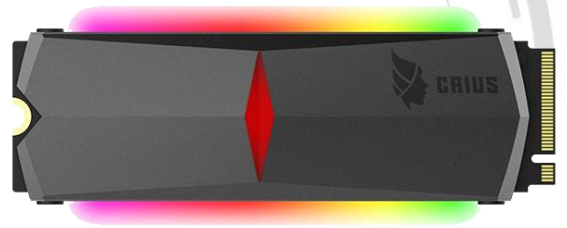


Consumer SSD E2000R Series

Introduction

Consumer SSD E2000R adopts M.2 interface, advanced SSD control computing chip and 3D NAND flash to effectively improve R/W speed and ensure data security.

It applies to personal computer and small-size proxy server to providing stable and high-speed service. It can also improve the high-end gaming experience and 3D graphics editing performance.



Available Models

HS-SSD-E2000R / 256GB

HS-SSD-E2000R / 512GB

HS-SSD-E2000R / 1024GB

Typical Application

- PC (notebook and desktop)
- Small-size proxy server

Features and Functions

- **High R/W Speed**
Supports PCIe and NVMe
Max. read speed up to 3450 MB/s
- **3D NAND**
Adopts 3D NAND flash to optimize capacity, performance and stability
- **Shockproof**
No mechanical structure
Adopts electronic chips control
High data security
- **M.2 Interface**



Specifications

| Model | | HS-SSD-E2000R | | |
|--|------------------------|--|-----------|-----------|
| Capacity | | 256 GB | 512 GB | 1024 GB |
| Form Factor | | M.2 (NGFF) | | |
| Interface | | PCIe Gen 3 x 4, NVMe | | |
| DRAM Cache Memory | | DDR3L | | |
| Dimensions | | 80.15 mm × 22.15 mm × 2.38 mm | | |
| Max. sequential 128 K read speed ^① | | 3100 MB/s | 3300 MB/s | 3450 MB/s |
| Max. sequential 128 K write speed | | 1000 MB/s | 2100 MB/s | 2900 MB/s |
| Max. random 4 K read IOPS ^② | | 187 K | 369 K | 600 K |
| Max. random 4 K write IOPS | | 220 K | 470 K | 600 K |
| Power consumption ^③ | Read (RMS max.) | 6.4 W | 7 W | 7.2 W |
| | Write (RMS max.) | 3.9 W | 5 W | 6.1 W |
| Endurance (TBW) ^④ | | 380 TB | 800 TB | 1665 TB |
| NAND flash memory | | 3D TLC | | |
| Characteristics | RGB | RGB colorful lights | | |
| | Programmable RGB strip | Support Gigabyte fusion adjustment, follow-up will support other motherboards | | |
| Weight | | ≤ 8 g (not include the weight of metal casing, heat dispersion silicone and other accessories) | | |
| MTBF (Mean Time between Failures) ^⑤ | | 1,500,000 h | | |
| Operation temperature | | 0 °C to 70 °C (32 °F to 158 °F) | | |
| Storage temperature | | -40 °C to +85 °C (-40 °F to +185 °F) | | |
| Operation humidity | | 5% to 95% (no condensation) | | |
| Limited warranty period | | 3 years | | |

*: Performance test is performed in a specific testing environment. Any change of computer system, operation system, hardware, software, or functions will influence the test result.

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- ①②: Performance in the specifications is tested based on CrystalDiskMark.
- ③: Power consumption may differ according to flash configuration and platform. Power consumptions are measured by using CrystalDiskMark 1000 MB to test sequential R/W 5 times. Power consumptions are measured when sequential Read [1/5] to [5/5] and sequential Write [1/5] to [5/5].
- ④: The TBW value is calculated based on Workload of JEDEC 218B/219A standard.
- ⑤: The MTBF value is calculated based on the functional failure rate of JEDEC 218B/219A standard.