

Consumer SSD E100 Series

Introduction

Consumer SSD E100 adopts 2.5-inch SATA 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-E100 128GB

HS-SSD-E100 256GB

HS-SSD-E100 512GB

HS-SSD-E100 1024GB

Typical Application

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

Features and Functions

- **High R/W Speed Supports**
Max. read speed up to 560 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
- **SATA 2.5-inch Interface**



Specifications

Model		HS-SSD-E100			
Capacity		128GB	256GB	512GB	1024GB
Form Factor		2.5-inch			
Interface		SATA 6.0Gbps (SATA-III) SATA 3.0Gbps (SATA-II) SATA 1.5Gbps (SATA-I)			
SSD control		AS2258			
Max. sequential 128 K read speed ^①		558 MB/s	561 MB/s	563 MB/s	566 MB/s
Max. sequential 128 K write speed		440 MB/s	480 MB/s	502 MB/s	517 MB/s
Max. random 4 K read IOPS ^②		58 K	60 K	63 K	64 K
Max. random 4 K write IOPS		66 K	68 K	72 K	74 K
Power consumption ^③	Read (RMS max.)	1.5 W	1.6 W	2.1 W	2.0 W
	Write (RMS max.)	1.6 W	1.8 W	2.9 W	3.2 W
Endurance (TBW) ^④		60 TB	120 TB	240 TB	480 TB
NAND flash memory		3D TLC			
Weight		≤ 150 g (not include the weight of metal casing, heat dispersion silicone and other accessories)			
MTBF (Mean Time between Failures) ^⑤		2,000,000 h			
Operation temperature		0 °C to 70 °C (32 °F to 158 °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.

- ① ②: 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 JEDC 218B/219A standard.
- ⑤: The MTBF value is calculated based on the functional failure rate of JEDC 218B/219A standard.

Distributed by

