

DHI-SSD-S810GS

2.5" SATA Solid State Drive



- Adopts high-performance main control chip, and high-quality flash memory.
- Designed to have stable sequential write performance and to make long-term video recordings, especially suitable for scenarios with high-stream transmission.
- Monitor SSD status through S.M.A.R.T. technology.
- Aluminum alloy casing; excellent heat dissipation.
- Equipped with Dahua-exclusive optimized LDPC to improve error correction rate and extend service life.
- Write amplification factor < 1.01.

System Overview

As a new generation of SATA 2.5" SSD product launched by Dahua, the S810 series adopts high-quality 3D wafer level chip and professional controller. Designed for video surveillance system, the product can effectively improve the response speed of video storage servers. With efficient and stable data processing capability, it can help you cope with special situations in video surveillance, such as overwrite when full.

Scene

The S810 series is a standard 2.5" solid state drive applicable to video surveillance devices, mobile DVRs and other devices.

Technical Specification

Specification

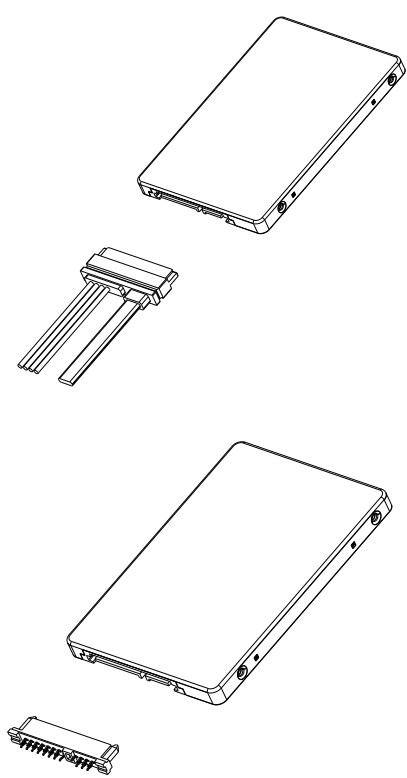
Product Model	DHI-SSD-S810GS1TB
Capacity ¹	1TB
Form Factor	2.5"
Interface	6 Gb/s SATA
Net Weight	Max. 80 g (0.18 lb)
Product Dimensions	100.20 mm × 69.90 mm × 7.00 mm (3.94" × 2.75" × 0.28") (L × W × H)
Packaging Dimensions	130 mm × 138 mm × 17.50 mm (5.12" × 5.43" × 0.69") (L × W × H)
Memory Component	3D TLC
Power Consumption	4,200 mW (max.) 680 mW (idle)
S.M.A.R.T	Yes
TRIM	Yes
Garbage Collection	Yes
Sequential Read ²	Up to 510 MB/s
Sequential Write ²	Up to 500 MB/s
4K Random Read ²	Up to 70,000
4K Random Write ²	Up to 5,100
MTBF	1,500,000 hours
Operating Temperature	0 °C to +70 °C (+32 °F to +158 °F)
Storage Temperature	−40 °C to +85 °C (−40 °F to +185 °F)
Operating Humidity	5%–95% (non-condensing)

Vibration Resistance	10–1000 Hz, 2.78G
Shock Resistance	20G/0.5 ms (half sine wave)
TBW	2500 TB
Warranty3	3-year limited warranty
Reference Information	1. Capacity calculation: 1GB = 1 billion bytes (IDEMA). Actual available capacity might be reduced (due to formatting, partition, operating system applications, or other necessary usage). 2. System configuration of performance test: Intel Z390 Chipset, Intel Core i9-9900KF@3.6GHz, 16GB DDR4; operating system-Windows 10 x64; testing tool-CrystalDiskMark 6.0.0. 3. Warranty period or maximum write amount (TBW), whichever comes first. 4. High performance SLC cache has been enabled.

Ordering Information

Type	Model	Description
DH-SSD-S810	DHI-SSD-S810GS1TB	2.5" SATA Solid State Drive DHI-SSD-S810GS1TB

Installation



Dimensions (mm [inch])

