

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.

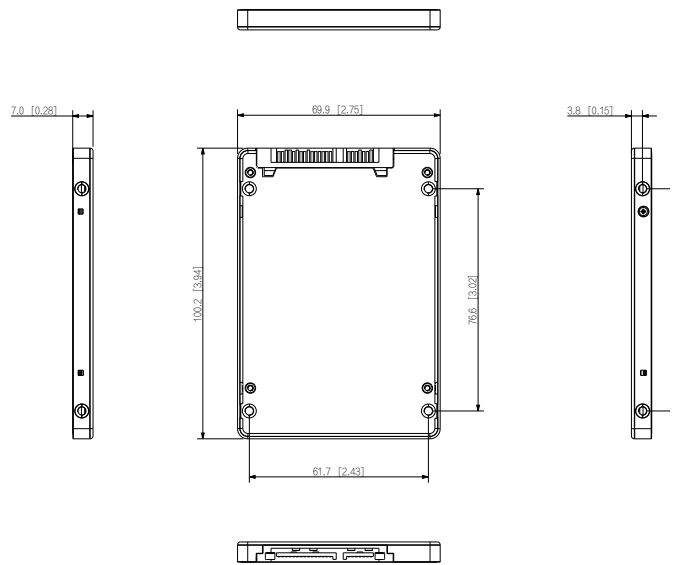
Technical Specification

Specification

Product Model	DHI-SSD-S810GS240G	DHI-SSD-S810GS480G	DHI-SSD-S810GS960G
Capacity ¹	240 GB	480 GB	960 GB
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	1,840 mW (max.) 680 mW (idle)	2,300 mW (max.) 680 mW (idle)	4,200 mW (max.) 680 mW (idle)
S.M.A.R.T	Yes		
TRIM	Yes		
Garbage Collection	Yes		
Sequential Read ²	Up to 550 MB/s	Up to 520 MB/s	Up to 510 MB/s
Sequential Write ²	Up to 470 MB/s	Up to 480 MB/s	Up to 500 MB/s
4K Random Read ²	Up to 75,000	Up to 75,000	Up to 70,000
4K Random Write ²	Up to 85,000	Up to 85,000	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	620 TB	1250 TB	2500 TB
Warranty ³	3-year limited warranty		
Reference Information	<ol style="list-style-type: none"> Capacity calculation: 1GB = 1 billion bytes (IDEMA). Actual available capacity might be reduced (due to formatting, partition, operating system applications, or other necessary usage). 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. Warranty period or maximum write amount (TBW), whichever comes first. High performance SLC cache has been enabled. 		

Dimensions (mm [inch])



Ordering Information

Type	Model	Description
DH-SSD-S810	DHI-SSD-S810GS240G	2.5" SATA Solid State Drive DHI-SSD-S810GS240G
	DHI-SSD-S810GS480G	2.5" SATA Solid State Drive DHI-SSD-S810GS480G
	DHI-SSD-S810GS960G	2.5" SATA Solid State Drive DHI-SSD-S810GS960G

Installation

