**Dahua** TECHNOLOGY

# 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.
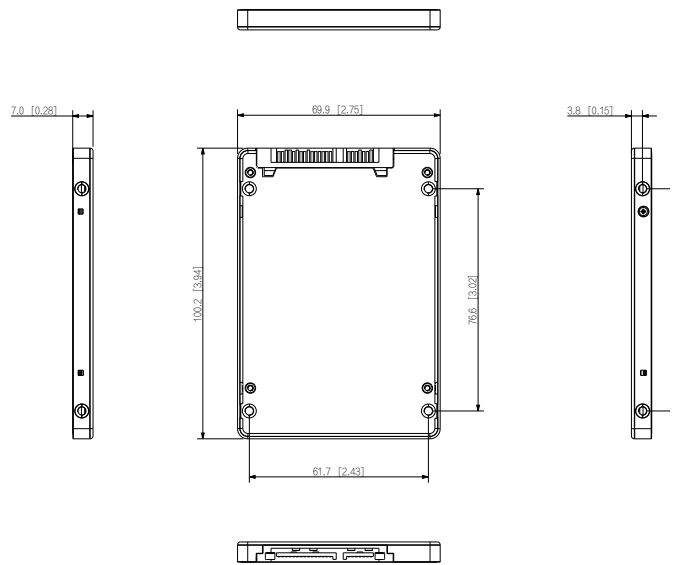
## Technical Specification

### Specification

| | | | |
|---|---|---|---|
| Product Model | DHI-SSD-S810GS240G | DHI-SSD-S810GS480G | DHI-SSD-S810GS1TB |
| Capacity[1] | 240 GB | 480 GB | 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 | 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 |
| 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. | | |

## 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-S810GS1TB | 2.5" SATA Solid State Drive DHI-SSD-S810GS1TB |

## Installation