

DHI-SSD-S820

2.5" SATA Solid State Drive



S820 Series 2.5" SATA Solid State Drive

System Overview

As a new generation of 2.5" SSD product launched by Dahua, S820 series adopts high-quality 3D NAND wafer level chip and high-performance controller. It is specially designed for vehicle monitoring system and improve response speed of car DVR. The S820 improves performance in processing data, and effectively deals with various special conditions in vehicle monitoring such as data flow and full coverage.

Scene

Supports mobile data terminal for vehicles with 2.5" SATA ports

Technical Specification

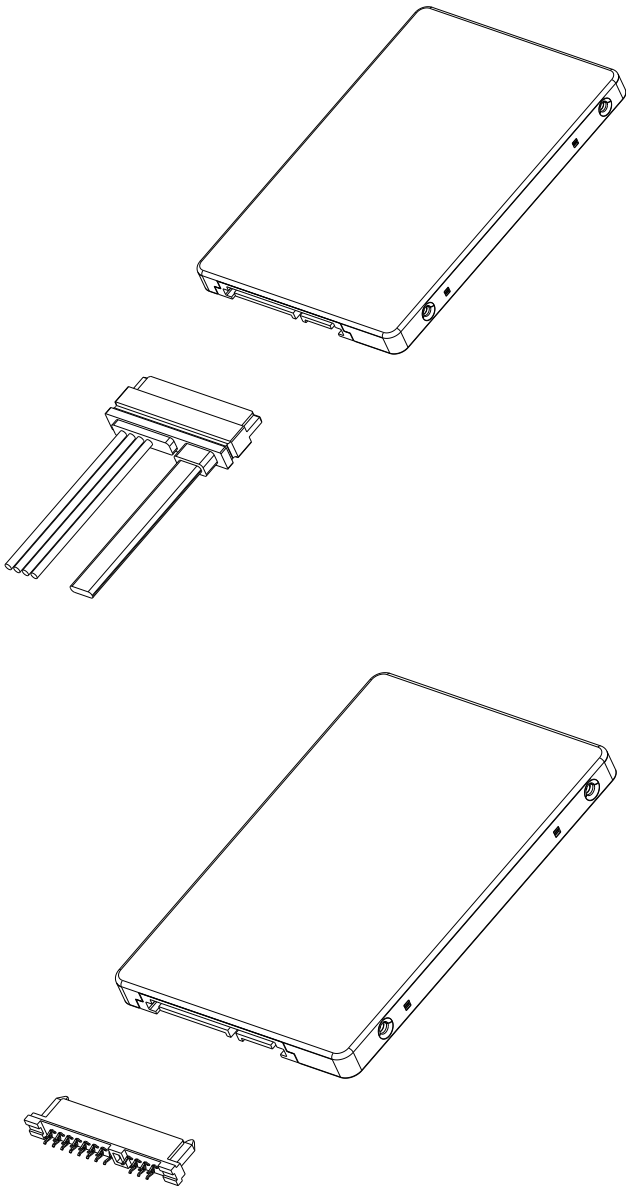
Product Model	DHI-SSD-S820S512G	DHI-SSD-S820S1TB	DHI-SSD-S820S2TB
Capacity ¹	512GB	1TB	2TB
Form Factor	2.5 inch		
Port	SATA III 6Gb/s		
Net Weight	Max 40 g (0.09 lb)		
Product Dimensions	99.68 mm × 69.68 mm × 6.80 mm (3.92" × 2.74" × 0.27")		
Packaging Dimensions	140.50 mm × 105.50 mm × 15.50 mm (5.53" × 4.15" × 0.61")		
Memory Component	3D NAND		
Power Consumption	2200 mW (max) 480 mW (idle)	3400 mW (max) 480 mW (idle)	3400 mW (max) 530 mW (idle)
S.M.A.R.T	Support		
TRIM	Support		
Garbage Collection	Support		

- Adopts high-quality 3D NAND wafer level chip.
- Supports SATA III protocol with transmission speed up to 550 MB/s.
- Provides better read and write performance with TRIM and NCQ.
- Low power consumption management.
- Stable read and write performance of the SSD card allows the car DVR to make and save video recordings without losing frames.

Sequential Read ²	Up to 550 MB/s	Up to 550 MB/s	Up to 480 MB/s
Sequential Write ²	Up to 420 MB/s	Up to 420 MB/s	Up to 430 MB/s
4K Random Read ²	Up to 74,240	Up to 60,160	Up to 51,200
4K Random Write ²	Up to 60,160	Up to 53,760	Up to 64,000
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	1500G/0.5 ms (half sine wave)		
TBW	1000TB	2000TB	4000TB
Warranty ³	3-year limited warranty		
Reference Information	1. Capacity calculator: 1GB = 1 billion bytes (IDEMA). Actual available capacity might be reduced (due to formatng, partton, operatng system applicatons, or other necessary usage). 2. The speed data comes from Zhejiang Huayixin Technology Co., Ltd Lab. System configuraton of performance test: Intel Z390 Chipset, Intel Core i9-9900KF@3.6GHz, 16GB DDR4; operatng system Windows 10 x64; testng tool-CrystalDiskMark 6.0.0. 3. Warranty period or maximum write amount (TBW), whichever comes frst. 4. High performance SLC cache has been enabled.		

Ordering Information		
Type	Model	Description
S820 Series	DHI-SSD-S820S512G	Dahua 2.5" SATA Solid State Drive DHI-SSD-S820S512G
	DHI-SSD-S820S1TB	Dahua 2.5" SATA Solid State Drive DHI-SSD-S820S1TB
	DHI-SSD-S820S2TB	Dahua 2.5" SATA Solid State Drive DHI-SSD-S820S2TB

Installation



Dimensions (mm[inch])

