

DHI-SSD-C800A

2.5 inch SATA Solid State Drive



- Adopts high-quality wafer level chip
- Supports SATA 3.0 protocol with transmission speed up to 550 MB/s
- View information through S.M.A.R.T
- Provides better read and write performance with TRIM and NCQ
- Low power consumption management

System Overview

As a new generation of 2.5 inch SSD product launched by Dahua, C800A series adopts high-quality 3D wafer level chip and high-performance controller. It is consumer-grade solid state drive designed for personal desktops and notebooks. The product can process data efficiently and ensure quick start-ups. In multi-tasking, it can ensure high speed and stability.

Scene

C800A series is standard 2.5 inch consumer-grade solid state drive which is applicable to personal desktops, notebooks, all-in-one computers, and more.

Technical Specification

Product Model	DHI-SSD-C800AS120G	DHI-SSD-C800AS240G	DHI-SSD-C800AS480G	DHI-SSD-C800AS500G
Capacity ¹	120 GB	240 GB	480 GB	500 GB
Form Factor	2.5 inch			
Port	SATA III 6Gb/s			
Net Weight	Max 40 g (0.09 lb)			
Product Dimensions	100.20 mm × 69.90 mm × 7.00 mm (3.94" × 2.75" × 0.28")			
Packaging Dimensions	140.50 mm × 105.50 mm × 15.50 mm (5.53" × 4.15" × 0.61")			
Memory Component	3D NAND			
Power Consumption	1195 mW (max) 415 mW (idle)	1200 mW (max) 370 mW (idle)	1600 mW (max) 510 mW (idle)	1910 mW (max) 790 mW (idle)
S.M.A.R.T	Support			
TRIM	Support			
Garbage Collection	Support			

Sequential Read ²	Up to 550 MB/s	Up to 550 MB/s	Up to 550 MB/s	Up to 530 MB/s
Sequential Write ²	Up to 420 MB/s	Up to 460 MB/s	Up to 470 MB/s	Up to 500 MB/s
4K Random Read ²	Up to 31000	Up to 50000	Up to 60000	Up to 42,000
4K Random Write ²	Up to 57000	Up to 57000	Up to 77000	Up to 80,000
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	10-200Hz, 0.5G			
TBW	50 TB	100 TB	150 TB	200 TB
Warranty ³	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. (*Above data based on internal testing of Dahua Memory Laboratory)			

Technical Specification

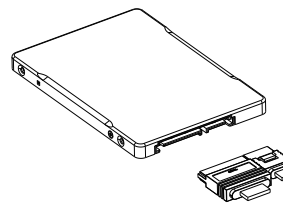
Product Model	DHI-SSD-C800AS960G	DHI-SSD-C800AS1000G	DHI-SSD-C800AS2000G
Capacity ¹	960 GB	1000 GB	2000 GB
Form Factor	2.5 inch		
Port	SATA III 6Gb/s		
Net Weight	Max 40 g (0.09 lb)		
Product Dimensions	100.20 mm × 69.90 mm × 7.00 mm (3.94" × 2.75" × 0.28")		
Packaging Dimensions	140.50 mm × 105.50 mm × 15.50 mm (5.53" × 4.15" × 0.61")		
Memory Component	3D NAND		
Power Consumption	2200 mW (max) 550 mW (idle)	1960 mW (max) 840 mW (idle)	2500 mW (max) 960 mW (idle)
S.M.A.R.T	Support		
TRIM	Support		
Garbage Collection	Support		
Sequential Read ²	Up to 550 MB/s	Up to 550 MB/s	Up to 550 MB/s
Sequential Write ²	Up to 490 MB/s	Up to 500 MB/s	Up to 460 MB/s
4K Random Read ²	Up to 63000	Up to 67,000	Up to 44000
4K Random Write ²	Up to 77000	Up to 81,000	Up to 78600
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	10-200 Hz, 0.5G		
TBW	310 TB	400 TB	800 TB
Warranty ³	3-year limited warranty		
Reference Information	<p>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).</p> <p>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.</p> <p>3. Warranty period or maximum write amount (TBW), whichever comes first.</p> <p>4. High performance SLC cache has been enabled.</p> <p>(*Above data based on internal testing of Dahua Memory Laboratory)</p>		

Ordering Information

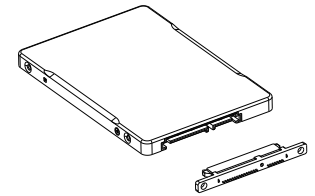
Type	Model	Description
C800 Series	DHI-SSD-C800AS120G	Dahua 2.5 inch SATA SSD DHI-SSD-C800AS120G
	DHI-SSD-C800AS240G	Dahua 2.5 inch SATA SSD DHI-SSD-C800AS240G
	DHI-SSD-C800AS480G	Dahua 2.5 inch SATA SSD DHI-SSD-C800AS480G
	DHI-SSD-C800AS500G	Dahua 2.5 inch SATA SSD DHI-SSD-C800AS500G
	DHI-SSD-C800AS960G	Dahua 2.5 inch SATA SSD DHI-SSD-C800AS960G
	DHI-SSD-C800AS1000G	Dahua 2.5 inch SATA SSD DHI-SSD-C800AS1000G
	DHI-SSD-C800AS2000G	Dahua 2.5 inch SATA SSD DHI-SSD-C800AS2000G

Installation

Install by Cable Connection



Install by Direct Insertion



Dimensions (mm[inch])

