

DHI-SSD-C800RS

2.5 inch SATA SSD



System Overview

Dahua memory C800 Lite series is a new generation of 2.5 inch SSD products launched by Dahua memory. It uses high-quality original wafer chips and high-performance controllers. It is a consumer-grade SSD designed for personal desktop and notebook users. Dahua memory C800 Lite series provides highly efficient data processing capabilities, smooth boot speed, and maintains high speed and stability in multi-tasking.

Scene

Dahua memory C800 Lite series is a standard 2.5 inch consumer-grade SSD, suitable for terminal devices such as personal notebooks, desktops and home all-in-one computers.

Technical Specification

Product Model	DHI-SSD-C800RS120G	DHI-SSD-C800RS128G	DHI-SSD-C800RS240G	DHI-SSD-C800RS256G
Capacity ¹	120GB	128GB	240GB	256GB
Form Factor	2.5 inch			
Port	SATA III 6Gb/s			
Net Weight	max 40g			
Product Dimensions ²	100.20 mm × 69.90 mm × 7.00 mm (3.94" × 2.75" × 0.28")			
Packaging Dimensions	130 mm × 104 mm × 17 mm (5.12" × 4.09" × 0.67")			
Memory Component	3D NAND FLASH			
Power Consumption ²	0.40W (idle) 1.06W (max)	0.40W (idle) 1.06W (max)	0.40W (idle) 1.12W (max)	0.40W (idle) 1.12W (max)
S.M.A.R.T	Support			
TRIM	Support			
Garbage Collection	Support			

- Good reading and writing performance, fast speed.
- Direct Flash read and write, no platter read/write head and other mechanical devices, good shock resistance performance.
- Adopts high-quality 3D NAND wafer level chip.
- Supports SATA III protocol with transmission speed up to 450MB/s.
- View information through S.M.A.R.T.
- Provides better read and write performance with TRIM and NCQ.

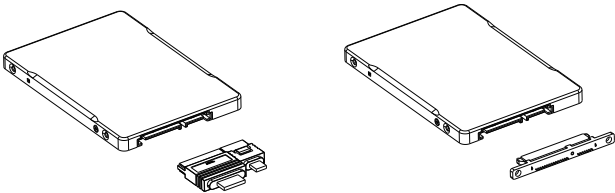
Sequential Read ²	up to 450MB/s	up to 450MB/s	up to 450MB/s	up to 450MB/s
Sequential Write ²	up to 350MB/s	up to 350MB/s	up to 350MB/s	up to 350MB/s
MTBF	1,500,000 hours			
Operating Temperature	0°C to +70°C (+32°F to +158°F)			
Storage Temperature	-40°C to +85°C (-40°F to +185°F)			
Operating Humidity	5%–95% (non-condensing)			
Vibration Resistance	10-200Hz, 0.5G			
TBW	50TB	50TB	100TB	100TB
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: Chip-AMD Ryzen 5 5600X 6-Core Processor 3.70GHz, 8GB DDR4, operating system-Windows 10 x64, testing tool-CrystalDiskMark 8.0.4 x64. 3. Warranty period or maximum write amount (TBW), whichever comes first. 4. High performance SLC cache has been enabled. 5. The data comes from Zhejiang Huayixin Technology Co., Ltd Laboratory. The actual performance might differ depending on the device it is being used with.			

Technical Specification				
Product Model	DHI-SSD-C800RS480G	DHI-SSD-C800RS500G	DHI-SSD-C800RS512G	DHI-SSD-C800RS960G
Capacity ¹	480GB	500GB	512GB	960GB
Form Factor	2.5 inch			
Port	SATA III 6Gb/s			
Net Weight	max 40g			
Product Dimensions ²	100.20 mm × 69.90 mm × 7.00 mm (3.94" × 2.75" × 0.28")			
Packaging Dimensions	130 mm × 104 mm × 17 mm (5.12" × 4.09" × 0.67")			
Memory Component	3D NAND FLASH			
Power Consumption ²	0.40W (idle) 1.90W (max)	0.40W (idle) 1.90W (max)	0.40W (idle) 1.90W (max)	0.80W (idle) 1.96W (max)
S.M.A.R.T	Support			
TRIM	Support			
Garbage Collection	Support			
Sequential Read ²	up to 450MB/s	up to 450MB/s	up to 450MB/s	up to 450MB/s
Sequential Write ²	up to 350MB/s	up to 350MB/s	up to 350MB/s	up to 350MB/s
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	200TB	200TB	200TB	400TB
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: Chip-AMD Ryzen 5 5600X 6-Core Processor 3.70GHz, 8GB DDR4, operating system-Windows 10 x64, testing tool-CrystalDiskMark 8.0.4 x64. 3. Warranty period or maximum write amount (TBW), whichever comes first. 4. High performance SLC cache has been enabled. 5. The data comes from Zhejiang Huayixin Technology Co., Ltd Laboratory. The actual performance might differ depending on the device it is being used with.			

Technical Specification				
Product Model	DHI-SSD-C800RS1000G	DHI-SSD-C800RS1TB	DHI-SSD-C800RS1920G	DHI-SSD-C800RS2TB
Capacity ¹	1000GB	1TB	1920GB	2TB
Form Factor	2.5 inch			
Port	SATA III 6Gb/s			
Net Weight	max 40g			
Product Dimensions ²	100.20 mm × 69.90 mm × 7.00 mm (3.94" × 2.75" × 0.28")			
Packaging Dimensions	130 mm × 104 mm × 17 mm (5.12" × 4.09" × 0.67")			
Memory Component	3D NAND FLASH			
Power Consumption ²	0.80W (idle) 1.96W (max)	0.80W (idle) 1.96W (max)	0.90W (idle) 2.50W (max)	0.90W (idle) 2.50W (max)
S.M.A.R.T	Support			
TRIM	Support			
Garbage Collection	Support			
Sequential Read ²	up to 450MB/s	up to 450MB/s	up to 450MB/s	up to 450MB/s
Sequential Write ²	up to 350MB/s	up to 350MB/s	up to 350MB/s	up to 350MB/s
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	400TB	400TB	800TB	800TB
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: Chip-AMD Ryzen 5 5600X 6-Core Processor 3.70GHz, 8GB DDR4, operating system-Windows 10 x64, testing tool-CrystalDiskMark 8.0.4 x64. 3. Warranty period or maximum write amount (TBW), whichever comes first. 4. High performance SLC cache has been enabled. 5. The data comes from Zhejiang Huayixin Technology Co., Ltd Laboratory. The actual performance might differ depending on the device it is being used with.			

Ordering Information		
Type	Model	Description
C800 LITE SERIES	DHI-SSD-C800RS120G	Dahua 2.5inch SATA SSD C800 Lite 120GB
	DHI-SSD-C800RS128G	Dahua 2.5inch SATA SSD C800 Lite 128GB
	DHI-SSD-C800RS240G	Dahua 2.5inch SATA SSD C800 Lite 240GB
	DHI-SSD-C800RS256G	Dahua 2.5inch SATA SSD C800 Lite 256GB
	DHI-SSD-C800RS480G	Dahua 2.5inch SATA SSD C800 Lite 480GB
	DHI-SSD-C800RS500G	Dahua 2.5inch SATA SSD C800 Lite 500GB
	DHI-SSD-C800RS512G	Dahua 2.5inch SATA SSD C800 Lite 512GB
	DHI-SSD-C800RS960G	Dahua 2.5inch SATA SSD C800 Lite 960GB
	DHI-SSD-C800RS1000G	Dahua 2.5inch SATA SSD C800 Lite 1000GB
	DHI-SSD-C800RS1TB	Dahua 2.5inch SATA SSD C800 Lite 1TB
	DHI-SSD-C800RS1920G	Dahua 2.5inch SATA SSD C800 Lite 1920GB
	DHI-SSD-C800RS2TB	Dahua 2.5inch SATA SSD C800 Lite 2TB

Installation



Dimensions (mm[inch])

