

# DHI-SSD-C800N

M.2 SATA SSD



- Adopts high-quality wafer level chip
- Supports SATA III 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 SATA M.2 SSD product launched by Dahua, DHI-SSD-C800N series adopts high-quality 3D wafer level chip and high-performance controller. It is consumer-grade solid state drive designed for desktops and notebooks supporting SATA M.2 port. The product can process data efficiently and store data stably. In multi-tasking, it can ensure high speed and stability.

## Scene

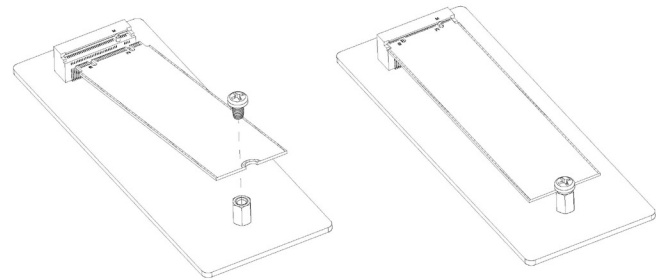
The product is applicable to desktops, notebooks, all-in-one computers that support SATA M.2 port.

## Technical Specification

Product Model	DHI-SSD-C800N128G	DHI-SSD-C800N256G	DHI-SSD-C800N500G	DHI-SSD-C800N512G	DHI-SSD-C800N1TB
Capacity <sup>1</sup>	128GB	256 GB	500 GB	512 GB	1 TB
Form Factor	SATA M.2 2280				
Port	SATA III 6Gb/s				
Net Weight	Max. 8 g (0.02 lb)				
Product Dimensions <sup>2</sup>	80.00 mm × 22.00 mm × 2.20 mm (3.15" × 0.87" × 0.09")				
Packaging Dimensions	140.50 mm × 105.50 mm × 15.50 mm (5.53" × 4.15" × 0.61")				
Memory Component	3D NAND				
Power Consumption <sup>3</sup>	0.88W (max.) 0.26W(idle)	1.60W (max.) 0.48W(idle)	1.65W (max.) 0.74W(idle)	1.65W (max.) 0.74W(idle)	1.70W (max.) 0.87W (idle)
S.M.A.R.T	Yes				
TRIM	Yes				
Garbage Collection	Yes				
Sequential Read <sup>3</sup>	Up to 500 MB/s	Up to 530 MB/s	Up to 530 MB/s	Up to 530 MB/s	Up to 530 MB/s
Sequential Write <sup>3</sup>	Up to 450 MB/s	Up to 450 MB/s	Up to 510 MB/s	Up to 450 MB/s	Up to 500 MB/s
4K Random Read <sup>3</sup>	Up to 56000	Up to 54000	Up to 39000	Up to 39000	Up to 70000
4K Random Write <sup>3</sup>	Up to 77000	Up to 79000	Up to 86000	Up to 79000	Up to 79000
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	250 TB	100 TB	200 TB	200 TB	400 TB
Warranty <sup>4</sup>	3-year limited warranty				
Reference Information	<p>1. Capacity calculation: 1 GB = 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. (* Speed data is from THE Dahua Storage lab and actual performance may vary from device to device.)</p>				

## Installation



## Ordering Information

Type	Model	Description
C800 Series	DHI-SSD-C800N128G	Dahua M.2 2280 SATA Solid State Drive 128GB Dramless 0~70 C
	DHI-SSD-C800N256G	Dahua M.2 2280 SATA Solid State Drive 256GB Dramless 0~70 C
	DHI-SSD-C800N500G	Dahua M.2 2280 SATA Solid State Drive 500GB Dramless 0~70 C
	DHI-SSD-C800N512G	Dahua M.2 2280 SATA Solid State Drive 512GB Dramless 0~70 C
	DHI-SSD-C800N1TB	Dahua M.2 2280 SATA Solid State Drive 1TB Dramless 0~70 C

## Dimensions (mm[inch])

