

# DHI-SSD-C900

## NVMe M.2 PCIe Gen3x4 Solid State Drive



- Supports PCIe3.0x4 and NVMe 1.3 protocol.
- Supports LDPC ECC to enhance data reliability.
- View information through S.M.A.R.T.
- Adopts high-quality 3D NAND wafer level chip and with 4K LDPC technology, the program-erase cycle is effectively improved to extend service time.
- Supports TRIM to improve read/write performance and speed.
- Low power consumption management.

### System Overview

The C900 series NVMe SSD adopts high-quality 3D NAND particles, high-performance controller and sophisticated firmware solution. The continuous read speed is up to 2000 MB/s, and the continuous write speed is up to 1600 MB/s. Compared with traditional mechanical hard disks with SATA ports, it can effectively improve computer storage and transmission performance by more than 10 times.

### Scene

Designed for tech-savvy high-end users, gamers and professionals, Dahua C900 series NVMe M.2 SSD is suitable for use in environments with heavy workloads, such as with video creating and editing.

### Technical Specification

#### Technical

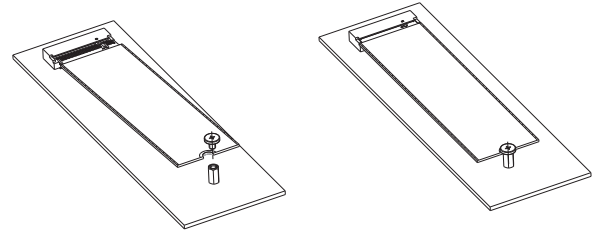
Product Model	DHI-SSD-C900N128G	DHI-SSD-C900N256G	DHI-SSD-C900N512G	DHI-SSD-C900N1TB
Capacity <sup>1</sup>	128GB	256GB	512GB	1TB
Form Factor	M.2 2280			
Port	PCIe Gen 3.0 × 4			
Net Weight	Max. 8 g (0.02 lb)			
Product Dimensions	80.00 mm × 22.00 mm × 2.25 mm (3.15" × 0.87" × 0.09")			
Packaging Dimensions	140.5 mm × 105.5 mm × 15.50 mm (5.53" × 4.15" × 0.61")			
Memory Component	3D NAND			
Power Consumption <sup>2</sup>	3066 mW (max) 566 mW (idle)	2950 mW (max) 528 mW (idle)	3521 mW (max) 1188 mW (idle)	3696 mW (max) 1188 mW (idle)
S.M.A.R.T	Yes			

TRIM	Yes			
Garbage Collection	Yes			
Sequential Read <sup>2</sup>	Up to 1250 MB/s	Up to 2000 MB/s	Up to 2000 MB/s	Up to 2000 MB/s
Sequential Write <sup>2</sup>	Up to 650MB/s	Up to 1050 MB/s	Up to 1450 MB/s	Up to 1600 MB/s
4K Random Read <sup>2</sup>	Up to 70,000	Up to 90,000	Up to 150,000	Up to 230,000
4K Random Write <sup>2</sup>	Up to 160,000	Up to 190,000	Up to 200,000	Up to 230,000
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, 0.5 G			
Shock Resistance	1500G&0.5 ms (half sine wave)			
TBW	80 TB	128 TB	256 TB	512 TB
Warranty <sup>3</sup>	3-year limited warranty			
Reference Information	<ol style="list-style-type: none"> <li>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).</li> <li>System configuration of performance test: Chip-AMD Ryzen 5 5600X 6-Core Processor@3.70 GHz, 8G-DDR4, operating system-Windows 10 x64, testing tool-CrystalDiskMark 6.0.0 x64.</li> <li>Warranty period or maximum write amount (TBW), whichever comes first.</li> <li>High performance SLC cache has been enabled.</li> <li>*The speed data comes from Zhejiang Huayixin Technology Co., Ltd Lab. The actual performance might differ depending on the device it is being used with.</li> </ol>			

**Ordering Information**

Type	Model	Description
C900 SERIES	DHI-SSD-C900N128G	NVMe M.2 PCIe Gen3x4 Solid State Drive
	DHI-SSD-C900N256G	NVMe M.2 PCIe Gen3x4 Solid State Drive
	DHI-SSD-C900N512G	NVMe M.2 PCIe Gen3x4 Solid State Drive
	DHI-SSD-C900N1TB	NVMe M.2 PCIe Gen3x4 Solid State Drive

**Installation**



**Dimensions (mm[inch])**

