

DHI-SSD-C900A

Dahua SSD



System Overview

Dahua C900 series NVMe SSD adopts high-quality 3D NAND Flash, with a new generation of high-performance controllers, and mature firmware solutions. The C900 series has a sequential read speed of up to 3000 MB/s and a sequential write speed of up to 1800 MB/s. The C900 improves computer data transmission performance in processing data 10 times faster than traditional mechanical hard drives with SATA ports. The TBW of C900A can reach up to 800 TB.

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

Product Model	DHI-SSD-C900AN500G	DHI-SSD-C900AN1000G	DHI-SSD-C900AN2000G
Capacity ¹	500 GB	1000 GB	2000GB
Form Factor	M.2 2280		
Port	PCIe Gen 3.0 × 4		
Net Weight	Max. 8 g (0.02 lb)		
Product Dimensions ²	80.00 mm × 22.00 mm × 3.60 mm (3.15" × 0.87" × 0.14")		
Packaging Dimensions	140.5 mm × 105.5 mm × 15.50 mm (5.53" × 4.15" × 0.61")		
Memory Component	3D NAND		
Power Consumption ²	2321 mW (max) 707 mW (idle)	3046 mW (max) 690 mW (idle)	3000 mW (max) 630 mW (idle)
S.M.A.R.T	Yes		
TRIM	Yes		
Garbage Collection	Yes		
Sequential Read ²	Up to 2,500 MB/s	Up to 2,500MB/s	Up to 3,000MB/s

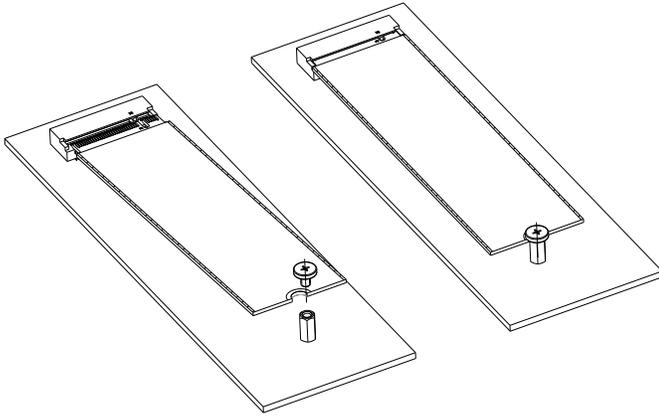
- PCIe Gen3.0 × 4.
- Compatible with NVMe 1.3 protocol; high performance and low latency.
- View information through S.M.A.R.T.
- Provides better read and write performance with TRIM.
- Adopts LDPC ECC algorithm to enhance data reliability.
- Low power consumption management.

Sequential Write ²	Up to 1,000 MB/s	Up to 1,800MB/s	Up to 1,800MB/s
4K Random Read ²	Up to 91,000	Up to 163,000	Up to 230,000
4K Random Write ²	Up to 221,500	Up to 290,000	Up to 270,000
MTBF	1,500,000 hours		
Operating Temperature	0 °C to +70 °C (+32 °F to +140 °F)		
Vibration Resistance	10–1000 Hz, 2.4G		
Storage Temperature	–40 °C to +85 °C (–40 °F to +185 °F)		
Operating Humidity	5%–95% (non-condensing)		
TBW	200 TB	400 TB	800 TB
Warranty ³	3-year limited warranty		
Reference Information	<ol style="list-style-type: none"> 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). 2. The speed data comes from Dahua Memory Lab. 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. 3. Warranty period or maximum write amount (TBW), whichever comes first. 4. High performance SLC cache has been enabled. 		

Ordering Information

Type	Model	Description
C900A	DHI-SSD-C900AN500G	Dahua SSD DHI-SSD-C900AN500G
	DHI-SSD-C900AN1000G	Dahua SSD DHI-SSD-C900AN1000G
	DHI-SSD-C900AN2000G	Dahua SSD DHI-SSD-C900AN2000G

Installation



Dimensions (mm[inch])

