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DHI-SSD-C900VN-B

NVMe M.2 Solid State Drive



- · Adopts high-quality 3D NAND wafer level chip.
- · Supports PCle3.0 x4 and NVMe 1.3 protocol.
- · Adopts TRIM to improve read/write performance and speed.
- · Supports Max. Write technology for full-disk SLC cache.
- · Supports LDPC ECC to enhance data reliability.
- · Low power consumption management.

System Overview

As a new generation of NVMe SSD product launched by Dahua, C900 PLUS series adopts high-quality 3D NAND wafer level chip and advanced controller, It supports Gen3.0 and 4-channel high-speed broadband transmission with read speed up to 3400 MB/s and write speed up to 3,000 MB/s. Adopt intelligent temperature control algorithm, and ensure stability and efficiency of the controller and flash memory chip for a longer time in high-load read and write.

Scene

As a consumer-grade NVMe M.2 SSD, the product is designed for tech-savvy high-end users, gamers and professionals, and is applicable to high workloads such as video production, editing and simulation.

Technical Specification

Technical

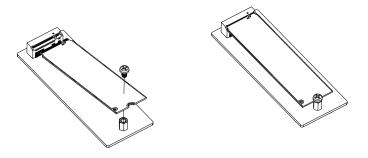
| Product Model | DHI-SSD- C900VN256G-B | DHI-SSD- C900VN512G-B | DHI-SSD- C900VN1TB-B | DHI-SSD- C900VN2TB-B | |
|------------------------------------|---|----------------------------------|--------------------------------|--------------------------------|--|
| Capacity ¹ | 256 GB | 512 GB | 1 TB | 2 TB | |
| Form Factor | M.2 2280 | | | | |
| Port | PCIe Gen 3.0 x 4 | | | | |
| Net Weight | Max. 8 g (0.02 lb) | | | | |
| Product Dimensions ² | 80.00 mm × 23.00 mm × 4.80 mm (3.15" × 0.91" × 0.19") | | | | |
| Packaging Dimensions | 130 mm × 104 mm × 17 mm (5.12" × 4.09" × 0.67") | | | | |
| Memory Component | 3D NAND FLASH | | | | |
| Power Consumption ³ | 2.8 W (max); 0.17 W (idle) | 3.689 W (max); 0.611 W (idle) | 3.95 W (max); 0.05 W (idle) | 4.15 W (max); 0.06 W (idle) | |
| S.M.A.R.T | Yes | | | | |
| TRIM | Yes | | | | |

| Garbage Collection | Yes | | | | |
|----------------------------------|---|---------------------|---------------------|---------------------|--|
| Sequential Read ³ | Up to 3,300 MB/s | Up to 3,300 MB/s | Up to 3,400 MB/s | Up to 3,400 MB/s | |
| Sequential Write ³ | Up to 1,200 MB/s | Up to 2,700 MB/s | Up to 3,000 MB/s | Up to 3,000 MB/s | |
| 4K Random Read³ | Up to 124400 | Up to 175800 | Up to 151200 | Up to 544300 | |
| 4K Random Write ³ | Up to 177900 | Up to 113900 | Up to 90600 | Up to 403900 | |
| 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 | | | | |
| Shock Resistance | 1,500 G/0.5 ms (half sine wave) | | | | |
| TBW | 128 TB | 256 TB | 512 TB | 2000 TB | |
| Warranty ⁴ | 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-Intel Z270 Chipset, Intel Core i7-7700K@4.2GHz, 8GB DDR4; operating system-Windows 10 x64; testing tool-CrystalDiskMark 8.11.2. 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 Zhejiang Huayixin Technology Co., Ltd Laboratory. | | | | |

C900 PLUS SERIES | DHI-SSD-C900VN-B

| Ordering Information | | | | | |
|----------------------|--------------------------|---|--|--|--|
| Туре | Model | Description | | | |
| C900 PLUS SERIES | DHI-SSD- C900VN256G-B | M.2 2280 PCIe G3x4 (Dramless) SSD DHI-SSD-C900VN256G-B | | | |
| | DHI-SSD- C900VN512G-B | M.2 2280 PCIe G3x4 (Dramless) SSD DHI-SSD-C900VN512G-B | | | |
| | DHI-SSD- C900VN1TB-B | M.2 2280 PCIe G3x4 (Dramless) SSD DHI-SSD-C900VN1TB-B | | | |
| | DHI-SSD- C900VN2TB-B | M.2 2280 PCIe G3x4 (Dramless) SSD DHI-SSD-C900VN2TB-B | | | |

Installation



Dimensions (mm[inch])

