

# 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

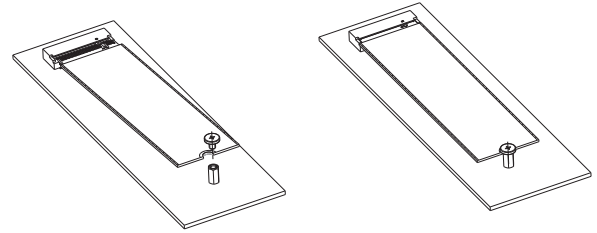
| Product Model                  | DHI-SSD-C900N128G                                      | DHI-SSD-C900N256G              | DHI-SSD-C900N512G               | DHI-SSD-C900N1TB                |
|--------------------------------|--|--------------------------------|---------------------------------|---------------------------------|
| 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)<br>566 mW (idle)                         | 2950 mW (max)<br>528 mW (idle) | 3521 mW (max)<br>1188 mW (idle) | 3696 mW (max)<br>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         | 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).<br>2. 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.<br>3.Warranty period or maximum write amount (TBW), whichever comes first.<br>4.High performance SLC cache has been enabled.<br>5.*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. |                 |                 |                 |

**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])**

