

# DHI-SSD-C970 PRO Series

Dahua M.2 2280 PCIe Gen4x4 Drambase SSD



- Original, high-quality DDR4 cache and 3D NAND Flash memory chip
- PCIe Gen4.0x4. Data transmission speed up to 7400 MB/s
- NVMe1.4 protocol
- 4K LDPC
- Reliable and fast end-to-end data

## System Overview

As a new generation of NVMe SSD flagship product, Dahua C970 PRO series adopts high-performance PCIe Gen4.0 controller IG5236, original high-quality DDR4 cache and 3D NAND Flash memory chip into its design. It has an 8-channel high-speed data transmission system, and a data transmission speed up to 7400 MB/s. Its advanced hybrid intelligent temperature control algorithm ensures that the controller and flash memory chip remain stable, working efficiently for a long time even while taking a heavy workload from the read/write state.

## Scene

Designed for tech-savvy high-end users, gamers and professionals, Dahua C970 PRO series NVMe M.2 SSD is suitable for use in environments with heavy workloads, such as with video creating and editing.

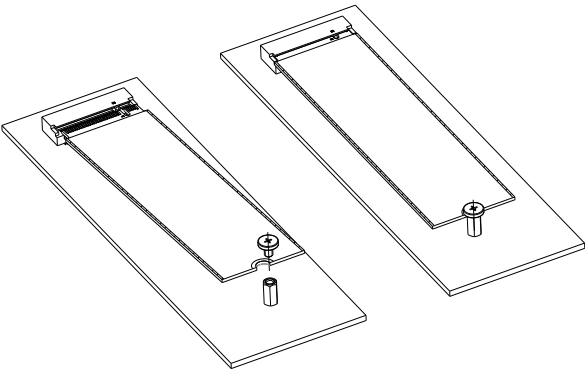
## Technical Specification

| Product Model                   | DHI-SSD-C970PN1TB                                      | DHI-SSD-C970PN2TB           |
|---------------------------------|--------------------------------------------------------|-----------------------------|
| Capacity <sup>1</sup>           | 1024 GB                                                | 2048 GB                     |
| Form Factor                     | M.2 2280                                               |                             |
| Port                            | PCIe Gen 4.0 x 4                                       |                             |
| Net Weight                      | Max. 8 g (0.02 lb)                                     |                             |
| Product Dimensions <sup>2</sup> | 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 TLC                                                 |                             |
| Power Consumption <sup>3</sup>  | 5.64 W (max); 1.69 W (idle)                            | 5.51 W (max); 1.65 W (idle) |
| S.M.A.R.T                       | Yes                                                    |                             |
| TRIM                            | Yes                                                    |                             |
| Garbage Collection              | Yes                                                    |                             |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Sequential Read <sup>3</sup>  | Up to 7,070 MB/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Up to 7,130 MB/s |
| Sequential Write <sup>3</sup> | Up to 5,280MB/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Up to 6,250MB/s  |
| 4K Random Read <sup>3</sup>   | Up to 888,200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Up to 1055,660   |
| 4K Random Write <sup>3</sup>  | Up to 1028,380                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Up to 1003,780   |
| 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          | 10-1000 Hz, 2.4 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |
| TBW                           | 1900 TB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3800 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. 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.</p> <p>3. Warranty period or maximum write amount (TBW), whichever comes first.</p> <p>4. High performance SLC cache has been enabled.</p> |                  |

| Ordering Information |                   |                                                              |
|----------------------|-------------------|--------------------------------------------------------------|
| Type                 | Model             | Description                                                  |
| C970 PRO Series      | DHI-SSD-C970PN1TB | Dahua M.2 2280 PCIe Gen4x4<br>Drambase SSD DHI-SSD-C970PN1TB |
|                      | DHI-SSD-C970PN2TB | Dahua M.2 2280 PCIe Gen4x4<br>Drambase SSD DHI-SSD-C970PN2TB |

Installation



Dimensions (mm[inch])

