

DHI-SSD-C900Q

NVMe M.2 Solid State Drive



- PCIe3.0 x4 interface
- Compatible with NVMe 1.3 protocol; high performance and low latency
- View information through S.M.A.R.T
- Supports TRIM to improve read/write performance
- Adopts LDPC ECC algorithm to enhance data reliability
- Equipped with 3D NAND and LDPC ECC technology; increased P/E cycles and long service life
- Low power consumption management

System Overview

With high-quality 3D NAND particles, high-performance controller and sophisticated firmware solution, the C900Q series NVMe SSD can improve the storage and transmission performance of computers by more than 20 times.

*The read/write performance of NVMe SSD is 20 times faster than traditional mechanical hard disk.

Scene

As a consumer-grade NVMe M.2 SSD, the C900Q series is designed for tech-savvy high-end users, gamers and professionals, and is applicable to high workloads such as video production/editing and simulation.

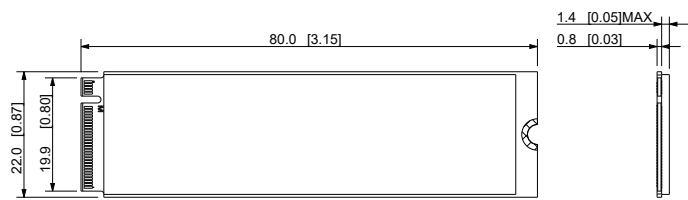
Technical Specification

Specification

Product Model	DHI-SSD-C900QN500G
Capacity ¹	500 GB
Form Factor	M.2 2280
Interface	PCIe Gen 3.0 x 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") (L × W × H)
Packaging Dimensions	140.50 mm × 105.50 mm × 15.50 mm (5.53" × 4.15" × 0.61") (L × W × H)
Memory Component	3D QLC
Power Consumption	2,772 mW (max) 528 mW (idle)
S.M.A.R.T	Yes
TRIM	Yes
Garbage Collection	Yes
Sequential Read ²	Up to 2,000 MB/s
Sequential Write ²	Up to 1,000 MB/s
4K Random Read ²	Up to 100,000
4K Random Write ²	Up to 229,000
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	7-800 Hz, 3.08G

Shock Resistance	1500G/0.5 ms (half sine wave)
TBW	175 TB
Warranty ³	3-year limited warranty
Reference Information	<div>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).</div> <div>2. System configuration of performance test: Chip-Intel Z390 Chipset, Intel Core i9-9900KF@3.6GHz, 16GB DDR4; operating system-Windows 10 x64; testing tool-CrystalDiskMark 6.0.0.</div> <div>3. Warranty period or maximum write amount (TBW), whichever comes first.</div> <div>4. High performance SLC cache has been enabled.</div>

Dimensions (mm [inch])



Ordering Information		
Type	Model	Description
C900Q Series	DHI-SSD-C900QN500G	M.2 2280 PCIe G3x4 (Dramless) SSD DHI-SSD-C900QN500G

Installation

