

DHI-SSD-C910

Dahua Memory high-speed SSD



System Overview

Dahua memory C910 series NVMe SSD uses original high-quality 3D NAND particles, with a new generation of high-performance controller, and mature firmware solutions. C910 series continuous read speed up to 2500MB/s, write speed up to 2000MB/s, compared to the traditional mechanical disk with serial advanced technology attachment (SATA) interface, effectively improve computer storage transmission performance by several times.

Scene

Dahua memory C910 series NVMe M.2 Consumer-grade SSD is suitable for high-workload working environments such as video production/editing or analog, and is designed for tech-savvy high-end users, gamers and professionals.

Technical Specification

Product Model	DHI-SSD-C910N128G	DHI-SSD-C910N256G	DHI-SSD-C910N512G	DHI-SSD-C910N1TB	DHI-SSD-C910N2TB
Capacity ¹	128GB	256GB	512GB	1TB	2TB
Form Factor	M.2 2280				
Port	PCIe Gen 3.0 x 4				
Net Weight	MAX 8g				
Product Dimensions ²	80.00 mm × 22.00 mm × 2.25 mm (3.15" × 0.87" × 0.09")				
Packaging Dimensions	130 mm × 104 mm × 17 mm (5.12" × 4.09" × 0.67")				
Memory Component	3D NAND FLASH				
Power Consumption ²	0.57W (idle) 3.06W (max)	0.53W (idle) 2.95W (max)	1.00W (idle) 3.50W (max)	1.00W (idle) 3.60W (max)	1.00W (idle) 4.20W (max)
S.M.A.R.T	Support				
TRIM	Support				
Garbage Collection	Support				

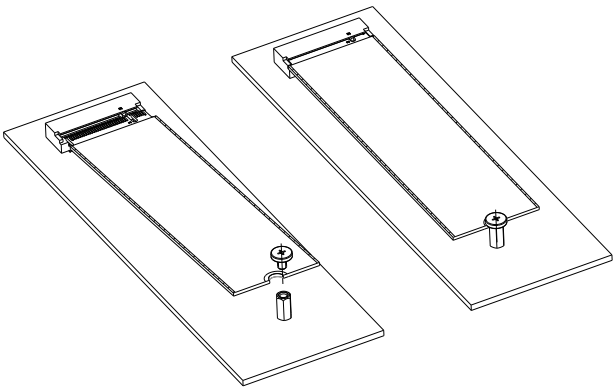
- Using peripheral component interconnect express (PCIe) 3.0 X4 interface.
- Compatible with NVMe 1.4 Protocol, with high performance and low latency.
- Support S.M.A.R.T information viewing.
- Support TRIM to improve read/write performance and speed.
- Supports LDPC ECC to enhance data reliability.
- Support low power consumption management.

Sequential Read ²	up to 1500MB/s	up to 1600MB/s	up to 2000MB/s	up to 2500MB/s	up to 2500MB/s
Sequential Write ²	up to 600MB/s	up to 700MB/s	up to 800MB/s	up to 1500MB/s	up to 2000MB/s
4K Random Read ²	up to 58K	up to 88K	up to 99K	up to 96K	up to 96K
4K Random Write ²	up to 102K	up to 95K	up to 96K	up to 91K	up to 91K
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				
TBW	80TB	128TB	150TB	300TB	600TB
Warranty ³	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-AMD Ryzen 5 5600X 6-Core Processor 3.70GHz, 8GB DDR4, operating system-Windows 10 x64, testing tool-CrystalDiskMark 8.0.4 x64. 3. Warranty period or maximum write amount (TBW), whichever comes first. 4. High performance SLC cache has been enabled. 5. The data comes from Zhejiang Huayixin Technology Co., Ltd Laboratory. The actual performance might differ depending on the device it is being used with.				

Ordering Information

Type	Model	Description
C910 SERIES	DHI-SSD-C910N128G	Dahua M.2 2280 PCIe G3x4(Dramless) SSD C910 SERIES 128GB
	DHI-SSD-C910N256G	Dahua M.2 2280 PCIe G3x4(Dramless) SSD C910 SERIES 256GB
	DHI-SSD-C910N512G	Dahua M.2 2280 PCIe G3x4(Dramless) SSD C910 SERIES 512GB
	DHI-SSD-C910N1TB	Dahua M.2 2280 PCIe G3x4(Dramless) SSD C910 SERIES 1TB
	DHI-SSD-C910N2TB	Dahua M.2 2280 PCIe G3x4(Dramless) SSD C910 SERIES 2TB

Installation



Dimensions (mm[inch])

