

DHI-SSD-E900

NVMe M.2 PCIe Gen3x4 Solid State Drive



- Adopts high-quality 3D NAND wafer level chip.
- Supports PCIe3.0 x4, and NVMe 1.3 protocol.
- All-metal cooling plate is included; equipped with intelligent temperature control technology.
- Supports TRIM to improve read/write performance and speed.
- Supports Max. Write technology for full-disk SLC cache.
- Supports LDPC ECC.
- Low power consumption management.

System Overview

The E900 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

Dahua E900 series NVMe M.2 business-grade SSD can be used for enterprise and personal notebooks*, desktops, and other devices. videos or image rendering, it is designed for tech-savvy high-end user, gamers and professionals.

Technical Specification

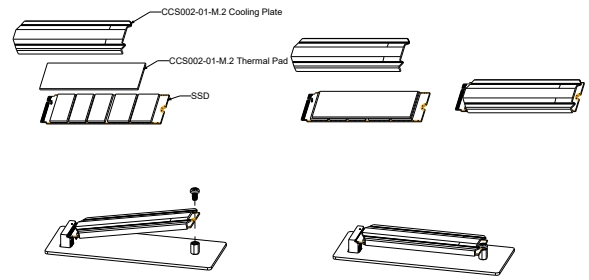
Product Model	DHI-SSD-E900N128G	DHI-SSD-E900N256G	DHI-SSD-E900N512G	DHI-SSD-E900N1TB
Capacity ¹	128 GB	256 GB	512 GB	1 TB
Form Factor	M.2 2280			
Port	PCIe Gen 3.0 x 4			
Net Weight	Max 8 g (0.02 lb)			
Product Dimensions ²	80.00 mm × 22.00 mm × 2.25 mm (3.15" × 0.87" × 0.09")			
Packaging Dimensions	130 mm × 104 mm × 17 mm (5.12" × 4.09" × 0.67")			
Memory Component	3D NAND			
Power Consumption ²	3066 mW (max) 566 mW (idle)	2950 mW (max) 528 mW (idle)	3521 mW (max) 1188 mW (idle)	3696 mW (max) 1188 mW (idle)
S.M.A.R.T	Support			
TRIM	Support			
Garbage Collection	Support			

Sequential Read ²	Up to 2000 MB/s	Up to 2000 MB/s	Up to 2000 MB/s	Up to 2000 MB/s
Sequential Write ²	Up to 650 MB/s	Up to 1050 MB/s	Up to 1500 MB/s	Up to 1600 MB/s
4K Random Read ²	Up to 58800	Up to 88300	Up to 99500	Up to 96200
4K Random Write ²	Up to 102400	Up to 95400	Up to 96200	Up to 91300
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 ³	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). 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. 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 The actual performance might differ depending on the device it is being used with.			

Ordering Information

Type	Model	Description
E900 SERIES	DHI-SSD-E900N128G	NVMe M.2 PCIe Gen3x4 Solid State Drive
	DHI-SSD-E900N256G	NVMe M.2 PCIe Gen3x4 Solid State Drive
	DHI-SSD-E900N512G	NVMe M.2 PCIe Gen3x4 Solid State Drive
	DHI-SSD-E900N1TB	NVMe M.2 PCIe Gen3x4 Solid State Drive

Installation



Dimensions (mm[inch])

