

# DHI-SSD-E900

## NVMe M.2 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

Equipped with high-quality 3D NAND wafer chip, high-performance controller and mature firmware solution, and worked with professional all-metal cooling plate, Dahua E900 series NVMe SSD provides efficient, stable and durable NVMe SSD.

\*System configuration for 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

### Scene

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

\*All-metal cooling plate is included with E900 series. Please make sure that your device has enough space before installing.

### Technical Specification

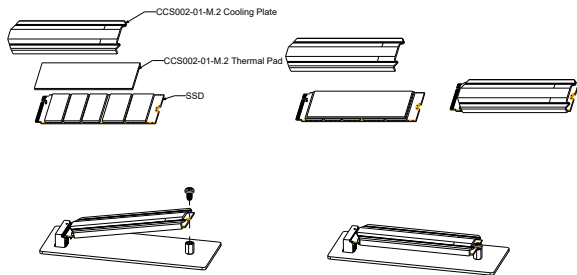
Product Model	DHI-SSD-E900N256G	DHI-SSD-E900N512G	DHI-SSD-E900N1TB
Capacity <sup>1</sup>	256 GB	512 GB	1 TB
Form Factor	M.2 2280		
Port	PCIe Gen 3.0 x 4		
Net Weight	Max 8 g (0.02 lb)		
Product Dimensions <sup>2</sup>	80.0 mm × 23.0 mm × 4.8 mm (3.15" × 0.91" × 0.19")		
Packaging Dimensions	140.5 mm × 105.5 mm × 15.5 mm (5.53" × 4.15" × 0.61")		
Memory Component	3D TLC		
Power Consumption <sup>2</sup>	2597 mW (max) 528 mW (idle)	2848 mW (max) 528 mW (idle)	3696 mW (max) 528 mW (idle)
S.M.A.R.T	Support		

TRIM	Support		
Garbage Collection	Support		
Sequential Read <sup>2</sup>	Up to 2000 MB/s	Up to 2000 MB/s	Up to 2000 MB/s
Sequential Write <sup>2</sup>	Up to 1250 MB/s	Up to 1550 MB/s	Up to 1800 MB/s
4K Random Read <sup>2</sup>	Up to 97000	Up to 160000	Up to 230000
4K Random Write <sup>2</sup>	Up to 190000	Up to 200000	Up to 230000
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, 3.08 G		
Shock Resistance	1500 G/0.5 ms (half sine wave)		
TBW	128 TB	256 TB	512 TB
Warranty <sup>3</sup>	3-year limited warranty		
Reference Information	<ol style="list-style-type: none"> <li>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).</li> <li>2. The dimensions are after installing cooling plate.</li> <li>3. System configuration of performance test: Intel Z390 Chipset, Intel Core i9-9900KF@3.6GHz, 16GB DDR4.; operating system-Windows 10 x64; testing tool-CrystalDiskMark 6.0.0.</li> <li>4. Warranty period or maximum write amount (TBW), whichever comes first.</li> <li>5. High performance SLC cache has been enabled.</li> </ol>		

## Ordering Information

Type	Model	Description
E900 Series	DHI-SSD-E900N256G	M.2 2280 PCIe G3x4 (Dramless) SSD DHI-SSD-E900N256G
	DHI-SSD-E900N512G	M.2 2280 PCIe G3x4 (Dramless) SSD DHI-SSD-E900N512G
	DHI-SSD-E900N1TB	M.2 2280 PCIe G3x4 (Dramless) SSD DHI-SSD-E900N1TB

## Installation



## Dimensions (mm[inch])

