

LEGEND 850 PCIe Gen4 x4 M.2 2280 SSD

# IMAGINE THE CREATIVITY POSSIBILITIES



## LEGEND 850 PCIe Gen4 x4 M.2 2280 Solid State Drive

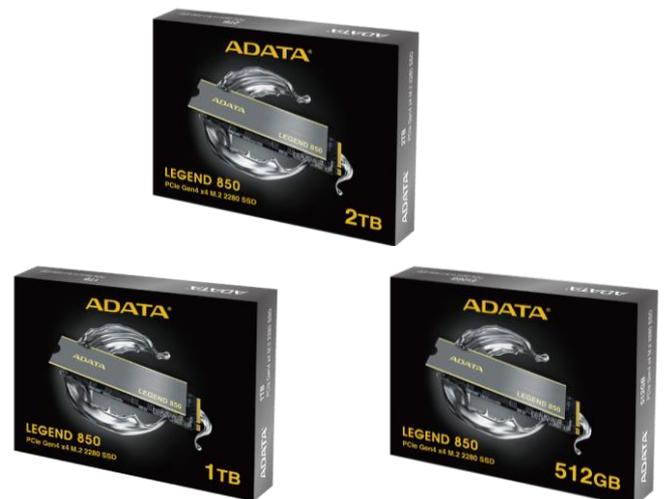
With PCIe 4.0, sequential read/write speeds of 5,000/4,500MB per second, and up to 2TB of capacity, the LEGEND 850 will help you create seamlessly on the latest Intel and AMD platforms.

### Features

- Ultra-fast PCIe Gen4 x4 interface
- Compliant with NVMe 1.4
- R/W speed up to 5,000/4,500MB/s
- Work with PS5
- Read speed up to 4,600MB/s for PS5
- Advanced hardware LDPC ECC Technology
- Supports Host Memory Buffer (HMB)
- AES 256-bit encryption support
- Great upgrade option for creators
- Compact M.2 2280 form factor – Designed for professional-level tasks such as 3D graphics, film production, computer-aided engineering, etc.
- Free software: SSD ToolBox

### Ordering Information

Capacity	Model Number	EAN Code
512GB	ALEG-850-512GCS	4711085936981
1TB	ALEG-850-1TCS	4711085936998
2TB	ALEG-850-2TCS	4711085938077



## Specifications

- Capacity: 512GB / 1TB / 2TB
- Controller: SMI SM2269XT
- NAND Flash: 3D NAND
- Interface: PCIe Gen4 x4
- Form Factor: M.2 2280
- Sequential read/write (Max.):  
Up to 5,000/4,500MB/s (PC/laptop)  
Read speed up to 4,600MB/s (PS5)
- 4K random read/write IOPS (Max.): 550K/400K
- Operating Temperature: 0°C-70°C
- Storage Temperature: -40°C-85°C
- Shock Resistance: 1500G/0.5ms
- Dimensions (L x W x H):  
80 x 22 x 3.13mm (with heat sink)  
80 x 22 x 2.15mm (without heat sink)
- Weight:  
w/ heat sink : (512GB/1TB) 5g / 0.17oz ; (2TB) 8g / 0.28oz  
w/o heat sink : (512GB/1TB) 4g / 0.14oz ; (2TB) 7g / 0.24oz
- Terabytes Written (TBW)(Max. capacity): 2,000TB
- MTBF: 2,000,000 hours
- Warranty: 5-year limited
- Certifications: CE, FCC, BSMI, KC, EAC, RCM, morocco, UKCA, RoHS

## Performance

Capacity	Sequential Performance (Up to) <sup>1</sup>		4K Random <sup>2</sup>		PS5 (Up to)	TBW <sup>3</sup>
	Read (MB/s)	Write (MB/s)	Read (IOPS)	Write (IOPS)	Seq. Read (MB/s)	
512GB	5,000	2,700	380K	530K	4,000	500TB
1TB	5,000	4,500	400K	550K	4,000	1,000TB
2TB	5,000	4,500	400K	550K	4,600	2,000TB

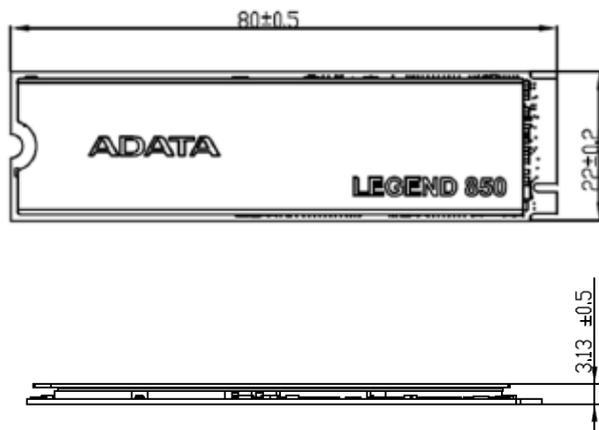
<sup>1</sup>M/B: MSI X570 Gaming Plus Max , CPU: AMD Ryzen 7 3700X 8-Core Processor 3.6GHz, RAM: ADATA 8G DDR4-2666MHz

<sup>2</sup>Performance may vary based on SSD capacity, hardware test platform, test software, operating system, and other system variables

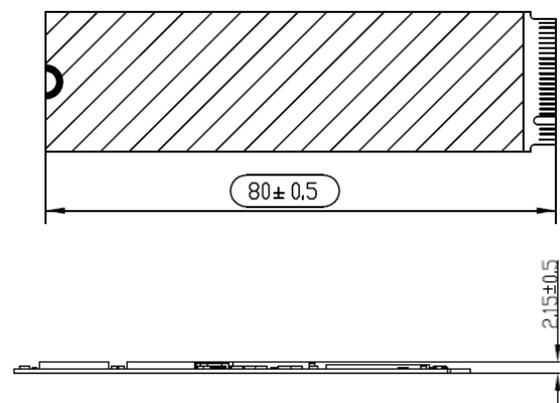
<sup>3</sup>The value is the minimum amount of terabyte written that could be reached.

## Schematics

<With heatsink>



<Without heatsink>



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