

LEGEND 850 LITE  
PCIe Gen4 x4 M.2 2280 SSD

# IMAGINE SMART CREATIVITY



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

With PCIe 4.0, sequential read/write speeds of 5,000/4,200MB per second, and up to 2000GB of capacity, the LEGEND 850 LITE 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 5,000/4,200MB/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
500GB	ALEG-850L-500GCS	4711085940698
1000GB	ALEG-850L-1000GCS	4711085940704
2000GB	ALEG-850L-2000GCS	4711085940711



## Specifications

- Capacity: 500GB / 1000GB / 2000GB
- NAND Flash: 3D NAND
- Interface: PCIe Gen4 x4
- Form Factor: M.2 2280
- Sequential read/write (Max.):  
Up to 5,000/4,200MB/s (PC/laptop)  
Read speed up to 4,600MB/s (PS5)
- Operating Temperature: 0°C-70°C
- Storage Temperature: -40°C-85°C
- Shock Resistance: 1500G/0.5ms
- Total Bytes Written (TBW)(Max. capacity): 450TB
- MTBF: 1,500,000 hours
- Dimensions (L x W x H):  
80 x 22 x 3.63mm (w/ heat sink)  
80 x 22 x 2.65mm (w/o heat sink)
- Weight:  

	w/ heat sink	w/o heat sink
(500GB)	8.5g / 0.29oz ;	(500GB) 5.5g / 0.19oz ;
(1000GB)	8.8g / 0.31oz ;	(1000GB) 5.8g / 0.2oz ;
(2000GB)	9.5g / 0.33oz	(2000GB) 6.5g / 0.23oz
- Certifications: CE, FCC, BSMI, KC, EAC, RCM, morocco, UKCA, RoHS
- Warranty: 3-year limited

## 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)	
500GB	4,700	1,700	320K	400K	4,000	110TB
1000GB	5,000	3,200	400K	550K	4,000	250TB
2000GB	5,000	4,200	400K	550K	4,600	450TB

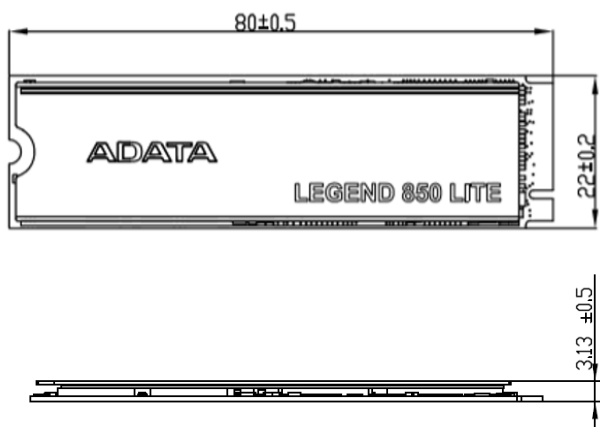
<sup>1</sup>M/B: MSI X570 Gaming Plus Max , CPU: AMD Ryzen 7 3700X 8-Core Processor 3.6GHz, RAM: ADATA 8G DDR4-2666MHz

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

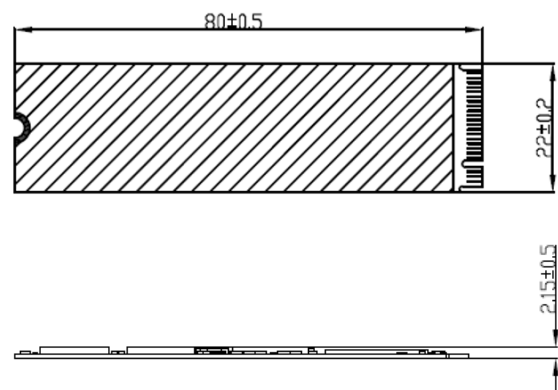
<sup>3</sup>The value is the minimum amount of terabyte written that could be reached.

## Schematics

<With heatsink>



<Without heatsink>



ADATA Technology Co., Ltd  
2F, No.258 Liancheng Rd.,  
Zhonghe Dist., New Taipei City 235, Taiwan  
T: +886-2-8228-0886  
F: +886-2-8228-0887  
E: [adata@adata.com](mailto:adata@adata.com)

CAN ICES-3 (B)/NMB-3(B)

WARNING: Cancer and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

UK	REP	APEX CE SPECIALISTS LIMITED Address: 89 Princess Street, Manchester, M1 4FT, UK E-mail: <a href="mailto:adata_europe@adata.com">adata_europe@adata.com</a>
EU	REP	ADATA Technology B.V. Address: Transpospark, Struudsteet 17-27, 2132 WT, Hoofddorp, The Netherlands E-mail: <a href="mailto:adata_europe@adata.com">adata_europe@adata.com</a>

