LEGEND 840 PCIe Gen4 x4 M.2 2280 SSD

UNLOCK INSPIRATION

LEGEND 840

LEGEND 840 PCIe Gen4 x4 M.2 2280 Solid State Drive

Be a legendary creator with the ADATA LEGEND 840. Drive your creativity with sustained read/write speeds of up to 5,000/4,500 MB per second 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 5,000MB/s for PS5
- Heat sink reduces temp. by up to 15%
- 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 and Migration Utility

Ordering Information

Capacity	Model Number	EAN Code
512GB	ALEG-840-512GCS	4711085935755
1TB	ALEG-840-1TCS	4711085935762

Specifications

- Capacity: 512GB / 1TB
- Controller: Innogrit IG5220
- 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 5,000MB/s (PS5)
- 4K random read/write IOPS (Max.): 650K/600K
- 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:
  9g / 0.32oz (with heat sink)
  6g / 0.21oz (without heat sink)
- Terabytes Written (TBW)(Max. capacity): 650TB
- MTBF: 2,000,000 hours
- Warranty: 5-year limited
- Certifications: CE, FCC, BSMI, KC, EAC, RCM, morocco, UKCA, RoHS

Performance

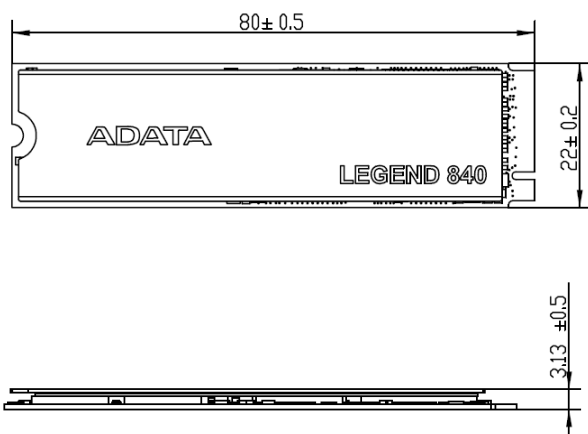| Capacity	ATTO*		CDM-QD32T1*		AS SSD*		4K Random*		PS5	TBW**
	Seq. Read (MB/s)	Seq. Write (MB/s)	Seq. Read (MB/s)	Seq. Write (MB/s)	Seq. Read (MB/s)	Seq. Write (MB/s)	Read (IOPS)	Write (IOPS)	Seq. Read (MB/s)	
512GB	Up to 5000	Up to 3400	Up to 5000	Up to 3000	Up to 4200	Up to 3000	520K	450K	Up to 4500	325TB
1TB	Up to 5000	Up to 4750	Up to 5000	Up to 4500	Up to 4300	Up to 4300	650K	600K	Up to 5000	650TB

*M/B: MSI X570 GAMING PLUS, CPU: AMD Ryzen 7 3700X 8-Core Processor @ 3.60GHZ
*Performance may vary based on SSD capacity, hardware test platform, test software, operating system, and other system variables
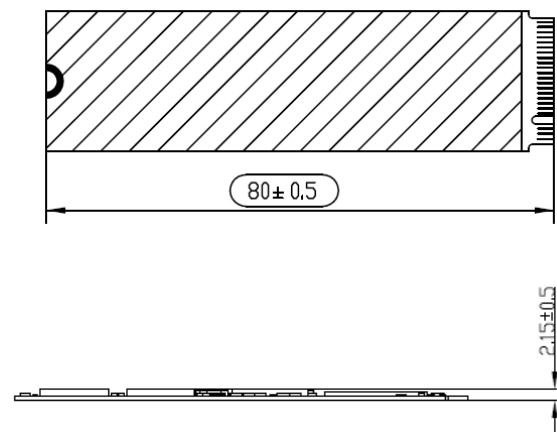**The value is the minimum amount of terabyte written that could be reached.

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