

Ultimate SU650 M.2 2280 Solid State Drive

AN UPGRADE YOU CAN'T REFUSE



Ultimate SU650 M.2 2280 3D NAND SSD

The ADATA Ultimate SU650 M.2 2280 SSD features 3D NAND Flash, a high-speed controller, and up to 1TB capacity. It delivers read/write performance of up to 550/510MB/s and greater reliability than 2D NAND SSDs. The SU650 sports SLC caching and advanced LDPC ECC technology to ensure optimized performance and data integrity.

Features

- 3D NAND Flash for higher durability and capacity
- SLC Caching: enhances transmission speed
- Advanced LDPC ECC Technology
- Free software: SSD Toolbox and Migration Utility
- Suitable for desktops and notebooks
- Supports S.M.A.R.T., TRIM Command and NCQ

Ordering Information

Capacity	Model Number	EAN Code
120GB	ASU650NS38-120GT-C	4710273772370
240GB	ASU650NS38-240GT-C	4710273772387
256GB	ASU650NS38-256GT-C	4711085936004
480GB	ASU650NS38-480GT-C	4710273772394
512GB	ASU650NS38-512GT-C	4711085936011
1TB	ASU650NS38-1TT-C	4711085936028



Specifications

- Capacity: 120GB / 240GB / 256GB / 480GB / 512GB / 1TB
- Controller: Maxiotek
- Sequential read/write (Max.):
Read 550MB/s ; write 510MB/s
- NAND Flash: 3D NAND
- Interface: SATA 6Gb/s (SATA III)
- Form Factor: M.2 2280
- MTBF: 2,000,000 hours
- Weight: 7g / 0.24oz
- Dimensions (L x W x H): 80 x 22 x 3.5mm
- 4K random read/write IOPS (Max.): 80K/60K
- Terabytes Written (TBW)(Max. capacity): 420TB
- Operating Temperature: 0°C-70°C
- Shock Resistance: 1500G/0.5ms
- Error Correction: LDPC ECC
- Warranty: 3-year limited warranty
- Certifications: RoHS, CE, FCC, BSMI, VCCI, KC, UKCA, Morocco, RCM, EAC

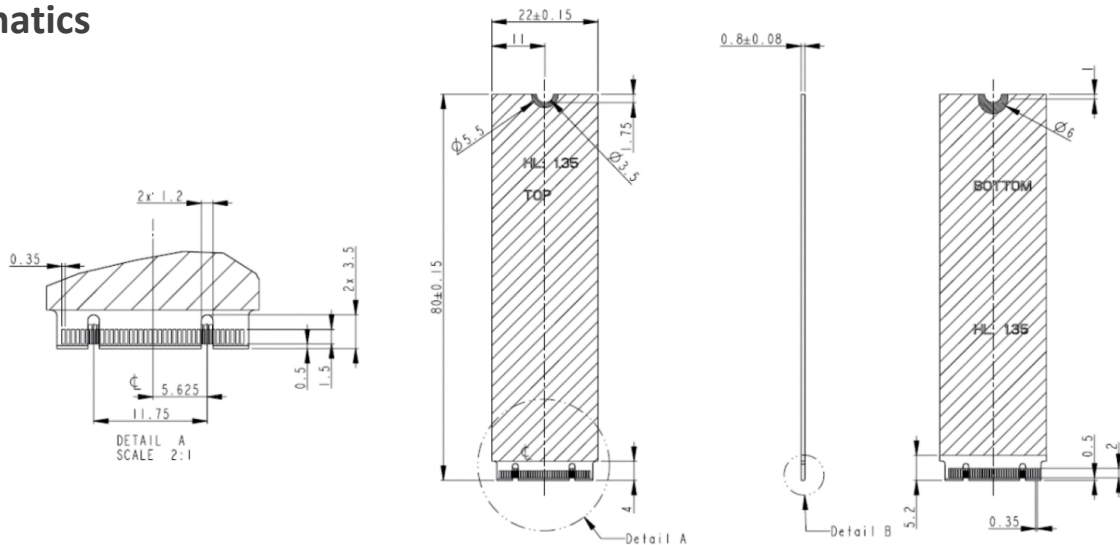
Performance

Capacity	Sequential Performance (Up to) ¹		4K Random (Up to) ¹		TBW ²
	Read (MB/s)	Write (MB/s)	Read (IOPS)	Write (IOPS)	
120GB	550	410	60K	40K	70TB
240GB	550	500	80K	60K	140TB
256GB	550	500	80K	60K	140TB
480GB	550	510	80K	60K	210TB
512GB	550	510	80K	60K	210TB
1TB	550	510	80K	60K	420TB

¹Performance may vary based on SSD capacity, hardware test platform, test software, operating system, and other system variables

²The value is the minimum amount of terabyte written that could be reached.

Schematics



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

WARNING: Cancer and Reproductive Harm
www.P65Warnings.ca.gov

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