

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
<b>120GB</b>	ASU650NS38-120GT-C	4710273772370
<b>240GB</b>	ASU650NS38-240GT-C	4710273772387
<b>256GB</b>	ASU650NS38-256GT-C	4711085936004
<b>480GB</b>	ASU650NS38-480GT-C	4710273772394
<b>512GB</b>	ASU650NS38-512GT-C	4711085936011
<b>1TB</b>	ASU650NS38-1TT-C	4711085936028



# Specifications

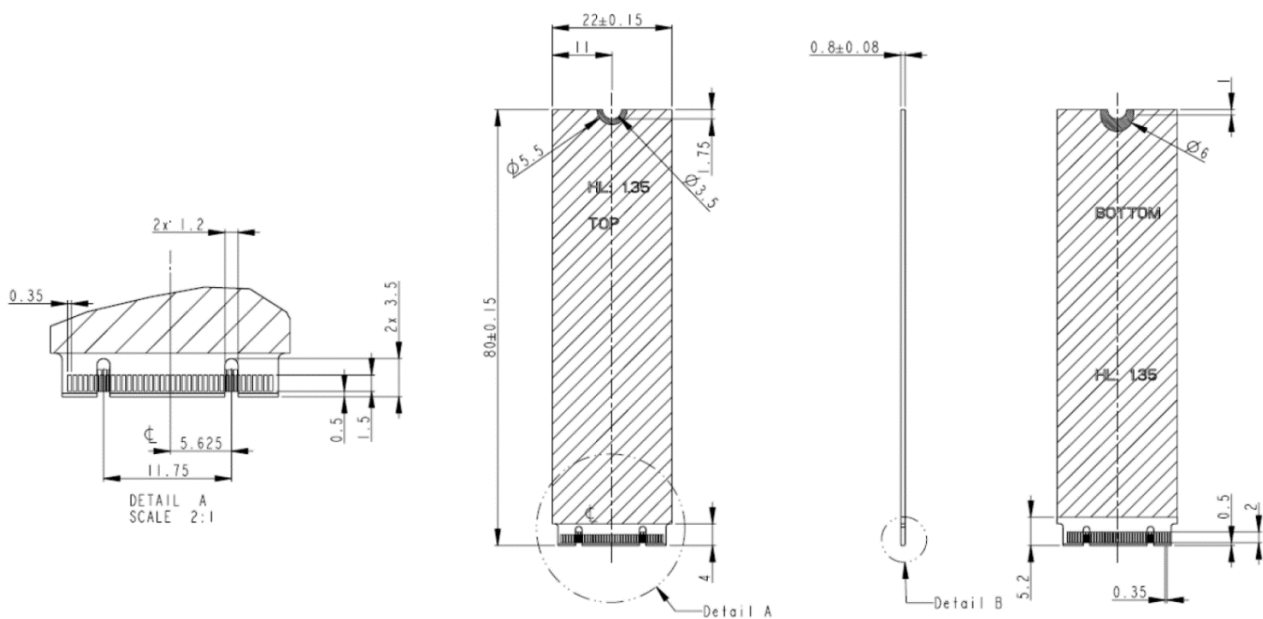
- Capacity: 120GB / 240GB / 256GB / 480GB / 512GB / 1TB
- NAND Flash: 3D NAND
- Interface: SATA 6Gb/s (SATA III)
- Form Factor: M.2 2280
- MTBF: 2,000,000 hours
- Weight: 7g
- Dimensions (L x W x H): 80 x 22 x 3.5mm
- Operating Temperature: 0°C-70°C
- Shock Resistance: 1500G/0.5ms
- Error Correction: LDPC ECC
- Warranty: 3-year limited warranty

# Performance

Capacity	ATTO		CDM-QD32		AS SSD		CDM-Random 4K		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)	
120GB	550	410	550	410	520	380	60K	40K	70TB
240GB	550	500	550	500	520	460	80K	60K	140TB
256GB	550	500	550	500	520	460	80K	60K	140TB
480GB	550	510	550	510	520	460	80K	60K	210TB
512GB	550	510	550	510	520	460	80K	60K	210TB
1TB	550	510	550	510	520	460	80K	60K	420TB

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

# Schematics



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