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
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: 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
- 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
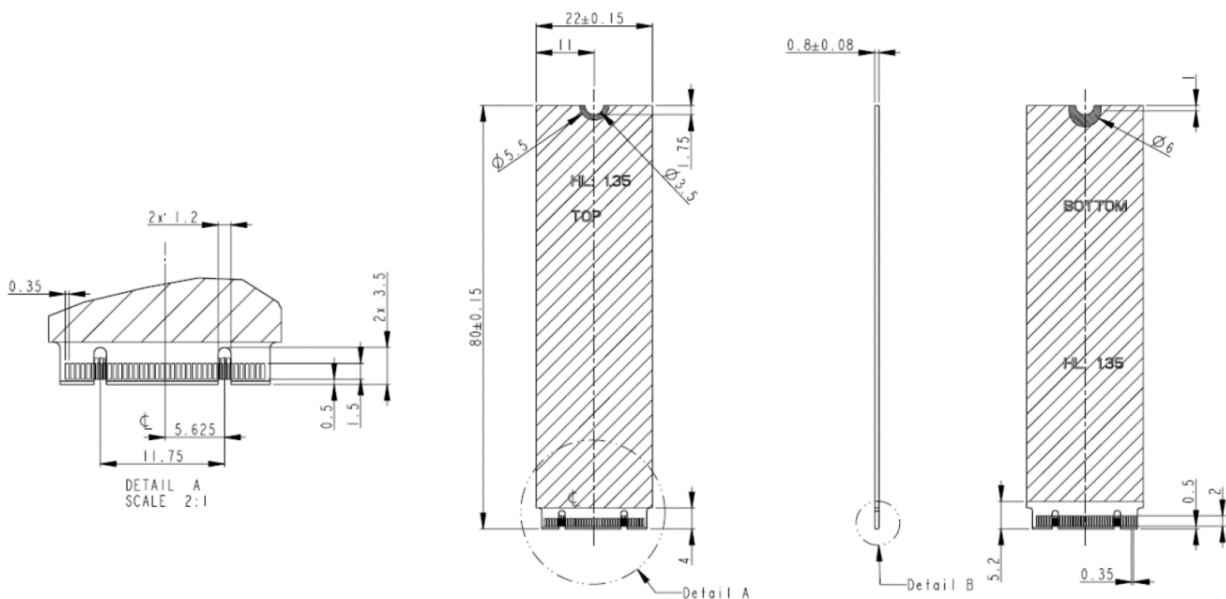- Certifications: RoHS, CE, FCC, BSMI, VCCI, KC, UKCA, Morocco, RCM, EAC

Performance

Capacity	Sequential Performance (Up to)[1]		TBW[2]
	Read (MB/s)	Write (MB/s)	
240GB	550	500	140TB
256GB	550	500	140TB
480GB	550	510	210TB
512GB	550	510	210TB
1TB	550	510	420TB

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

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

Schematics