

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
- 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)	
120GB	550	410	70TB
240GB	550	500	140TB
256GB	550	500	140TB
480GB	550	510	210TB
512GB	550	510	210TB
1TB	550	510	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

