

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 480GB 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>480GB</b>	ASU650NS38-480GT-C	4710273772394

## Specifications

- Capacity: 120GB / 240GB / 480GB
- NAND Flash: 3D NAND
- Interface: SATA 6Gb/s (SATA III)
- Form Factor: M.2 2280
- MTBF: 2,000,000 hours
- Dimensions (L x W x H): 1 80 x 22 x 3.5mm
- Weight: 7g
- Operating Temperature: 0°C-70°C
- Storage Temperature: -40°C-85°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)	
<b>120GB</b>	550	410	550	410	520	380	60K	40K	70TB
<b>240GB</b>	550	500	550	500	520	460	80K	60K	140TB
<b>480GB</b>	550	510	550	510	520	480	80K	60K	210TB

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

## Schematics

