

## Ultimate SU650 3D NAND SSD

The Ultimate SU650 solid state drive implements 3D NAND Flash and a high speed controller, offering capacities up to 1TB. It delivers read/write performance up to 520/450MB/s and greater reliability than 2D NAND SSDs. The SU650 features SLC caching and advanced error correction technologies to ensure optimized data performance and integrity. For those who want to experience a clear PC upgrade, the SU650 is an excellent choice with a great cost-performance ratio.

### Features

- 3D NAND Flash for higher durability and capacity
- Wide capacity range: 120GB to 1TB
- SLC caching: enhances transmission speed
- Advanced error correction
- Tougher, quieter, and more reliable than HDDs
- Supports ADATA proprietary software – “SSD Toolbox” and “Migration Utility”

### Ordering Information

Capacity	Model Number	EAN Code
<b>120GB</b>	ASU650SS-120GT-R	4713218461155
<b>240GB</b>	ASU650SS-240GT-R	4713218461162
<b>256GB</b>	ASU650SS-256GT-R	4711085931511
<b>480GB</b>	ASU650SS-480GT-R	4713218461179
<b>512GB</b>	ASU650SS-512GT-R	4711085931528
<b>960GB</b>	ASU650SS-960GT-R	4713218461186
<b>1TB</b>	ASU650SS-1TT-R	4711085940049



# Specification

- Capacity: 120GB / 240GB / 256GB / 480GB / 512GB / 960GB / 1TB
- NAND Flash: 3D NAND
- Interface: SATA 6Gb/s (SATA III)
- Form factor: 2.5"
- MTBF: 2,000,000 hours
- Sequential read/write (Max.): R/W 520/450MB/s
- 4K random read/write IOPS (Max.): 40K/75K
- Error correction: ECC
- Terabytes Written (TBW)(Max. capacity): 600TB
- Dimensions (L x W x H): 100.45 x 69.85 x 7mm
- Weight: 47.5g / 1.67oz
- Operating temperature: 0°C-70°C
- Storage temperature: -40°C-85°C
- Shock resistance: 1500G/0.5ms
- Warranty: 3-year limited warranty
- Certifications: CE, FCC, BSMI, KC, EAC, RCM, morocco, UKCA, VCCI

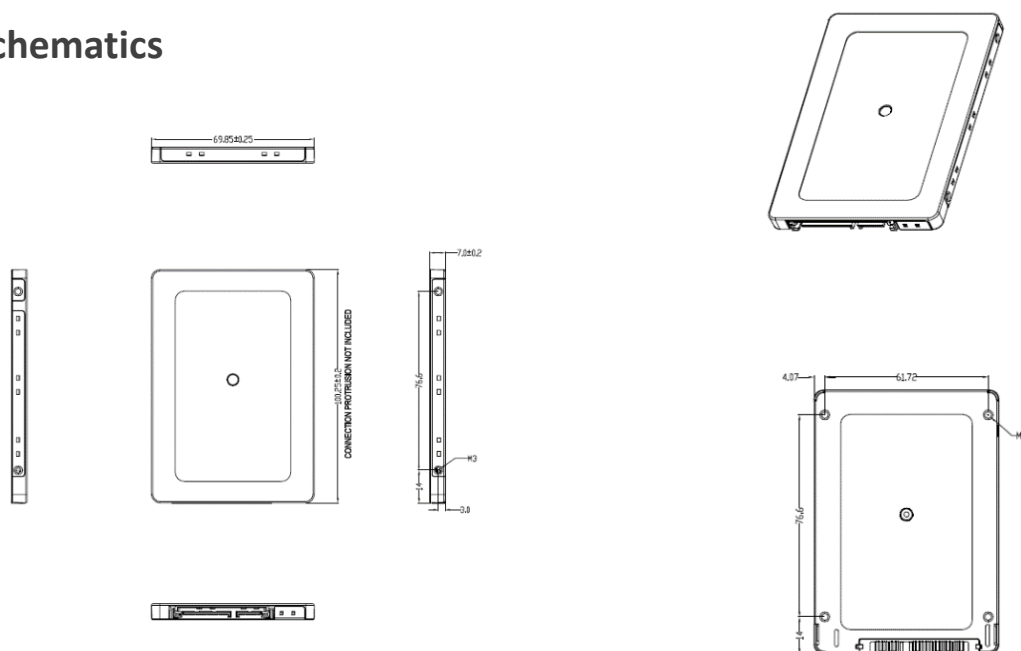
# Performance

Capacity	Sequential Performance (Up to) <sup>1</sup>		4K Random (Up to) <sup>1</sup>		TBW <sup>2</sup>
	Read (MB/s)	Write (MB/s)	Read (IOPS)	Write (IOPS)	
120GB	520	320	20K	75K	70TB
240GB	520	450	40K	75K	140TB
256GB	520	450	40K	75K	140TB
480GB	520	450	40K	75K	280TB
512GB	520	450	40K	75K	280TB
960GB	520	450	40K	75K	560TB
1TB	520	450	40K	65K	600TB

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

<sup>2</sup>The value is the minimum amount of terabyte written that could be reached.

# Schematics



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