

SU650 Solid State Drive

**FIRST SSD?  
GREAT TIMING!**



## Ultimate SU650 3D NAND SSD

The Ultimate SU650 solid state drive implements 3D NAND Flash and a high speed controller, offering capacities up to 2TB. 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: 240GB to 2TB
- 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>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 |
| <b>2TB</b>   | ASU650SS-2TT-R   | 4711085945884 |



# Specification

- Capacity: 240GB / 256GB / 480GB / 512GB / 960GB / 1TB / 2TB
- 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
- Error correction: ECC
- Terabytes Written (TBW)(Max. capacity): 1120TB
- Dimensions (L x W x H): 100.45 x 69.85 x 7mm
- Weight: 50.8g / 1.79oz
- 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

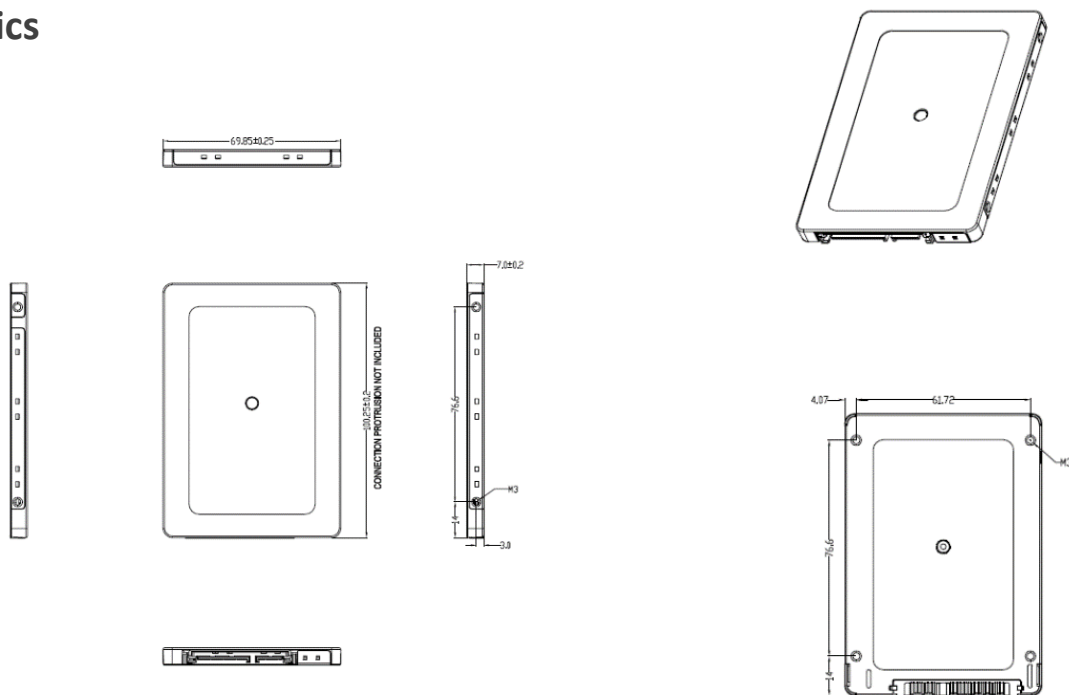
# Performance

| Capacity | Sequential Performance (Up to) <sup>1</sup> |              | TBW <sup>2</sup> |
|----------|---|--------------|------------------|
|          | Read (MB/s)                                 | Write (MB/s) |                  |
| 240GB    | 520   | 450          | 140TB            |
| 256GB    | 520   | 450          | 140TB            |
| 480GB    | 520   | 450          | 280TB            |
| 512GB    | 520   | 450          | 280TB            |
| 960GB    | 520   | 450          | 560TB            |
| 1TB      | 520   | 450          | 560TB            |
| 2TB      | 520   | 450          | 1120TB           |

<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



CAN ICES-3 (B)/NMB-3(B)

WARNING: Cancer and Reproductive Harm  
www.P65Warnings.ca.gov

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|----|-----|---|
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