ADATA Ultimate SU900 3D NAND SSD

The Ultimate SU900 solid state drives implements 3D MLC NAND Flash and an SMI controller, offering capacities up to 2TB, high speed, and great reliability. It features intelligent SLC Caching and DRAM Cache Buffer to boost read/write performance up to 560/525MB per second. With the support of LDPC ECC and multiple data protection technologies, the SU900 provides high TBW (total bytes written) and instantly upgrades notebook and desktop PCs with superior stability, durability, and power efficiency. In addition, the SU900 is backed by a 5-year warranty for long-term reliability assurance.

Features

- 3D MLC NAND Flash
- SMI Controller
- Wide capacity range: 256GB to 2TB
- Advanced hardware LDPC ECC Technology
- Intelligent SLC Caching and DRAM cache buffer
- DEVSLP (Device Sleep) supported
- High TBW for extended drive longevity
- Free software: SSD Toolbox and Migration Utility
- Supports S.M.A.R.T, TRIM Command, and NCQ

Ordering Information

Capacity	Model Number	EAN Code
256GB	ASU900SS-256GM-C	4712366968295
512GB	ASU900SS-512GM-C	4712366968301
1TB	ASU900SS-1TM-C	4712366968318
2TB	ASU900SS-2TM-C	4712366968325

Specifications

- Capacities: 256GB / 512GB / 1TB / 2TB
- Controller: SMI
- NAND Flash memory: 3D MLC
- Interface: SATA 6Gb/s (SATA III)
- Form factor: 2.5"
- MTBF: 2,000,000 hours
- Dimensions (L x W x H): 100.45 x 69.85 x 7mm

- Weight: 47.5g,
- Operating temperature: 0°C-70°C
- Storage temperature: -40°C-85°C
- Shock resistance: 1500G/0.5ms
- Error correction: advanced hardware LDPC engine
- Certifications: RoHS, CE, FCC, BSMI, VCCI, KC
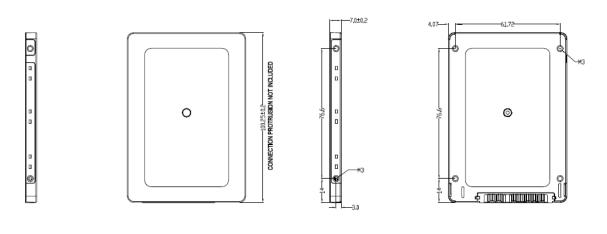- Warranty: 5 years

Performance

Capacity	Read Speed ATTO (MB/s)	Write Speed ATTO (MB/s)	Sequential Read Crystal Disk Mark (MB/s)	Sequential Write Crystal Disk Mark (MB/s)
256GB	Up to 560	Up to 520	Up to 550	Up to 505
512GB	Up to 560	Up to 525	Up to 550	Up to 510

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

Schematics