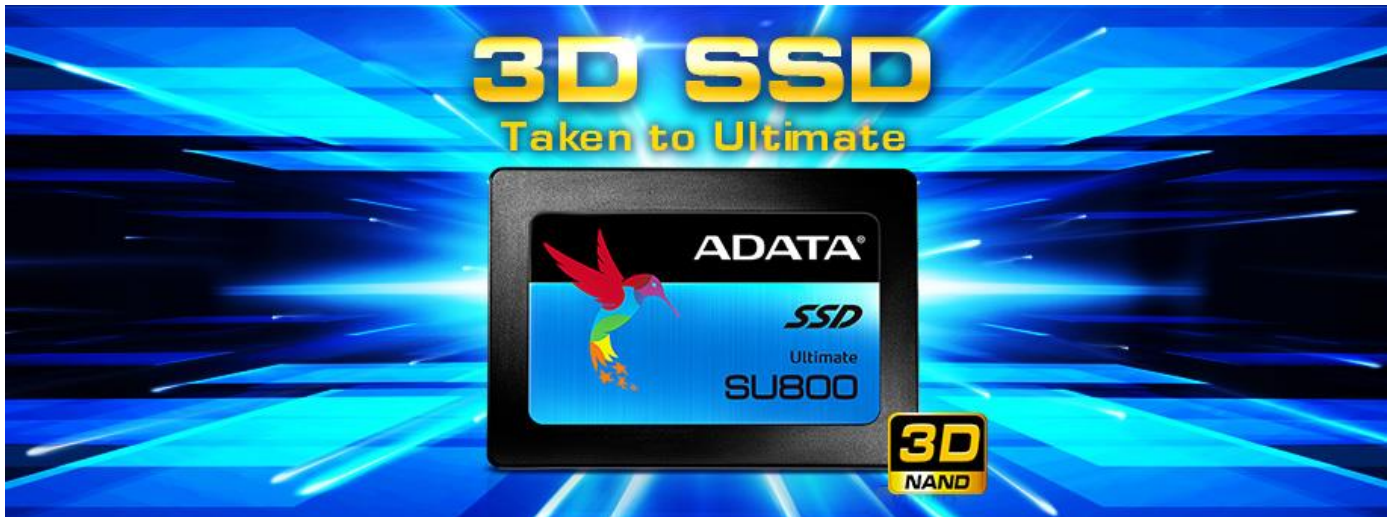# ADATA Ultimate SU800 3D NAND SSD

The SU800 solid state drive lives up to its Ultimate name with 3D NAND Flash that provides higher storage density, efficiency, and reliability than traditional 2D NAND. It features intelligent SLC Caching and a DRAM cache buffer to boost read/write performance even further. Featuring LDPC ECC, high TBW (total bytes written), and technologies such as DEVSLP (Device Sleep), the Ultimate SU800 instantly upgrades notebook and desktop PCs with superior stability, durability, and power efficiency. In addition, users can download ADATA in house-developed SSD Toolbox and Migration Utility software for free to enjoy easy data management and migration.

Features

- 3D TLC NAND Flash
- SMI Controller
- Wide capacity range: 128GB to 1TB
- 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
128GB	ASU800SS-128GT-C	4712366967243
256GB	ASU800SS-256GT-C	4712366967250
512GB	ASU800SS-512GT-C	4712366967267
1TB	ASU800SS-1TT-C	4712366967274

Specifications

- Capacities: 128GB / 256GB / 512GB / 1TB
- Controller: SMI
- NAND Flash memory: 3D TLC
- 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: 3 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)
128GB	Up to 560	Up to 300	Up to 550	Up to 300
256GB	Up to 560	Up to 520	Up to 550	Up to 500
512GB	Up to 560	Up to 520	Up to 550	Up to 500
1TB	Up to 560	Up to 520	Up to 550	Up to 500

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

Schematics