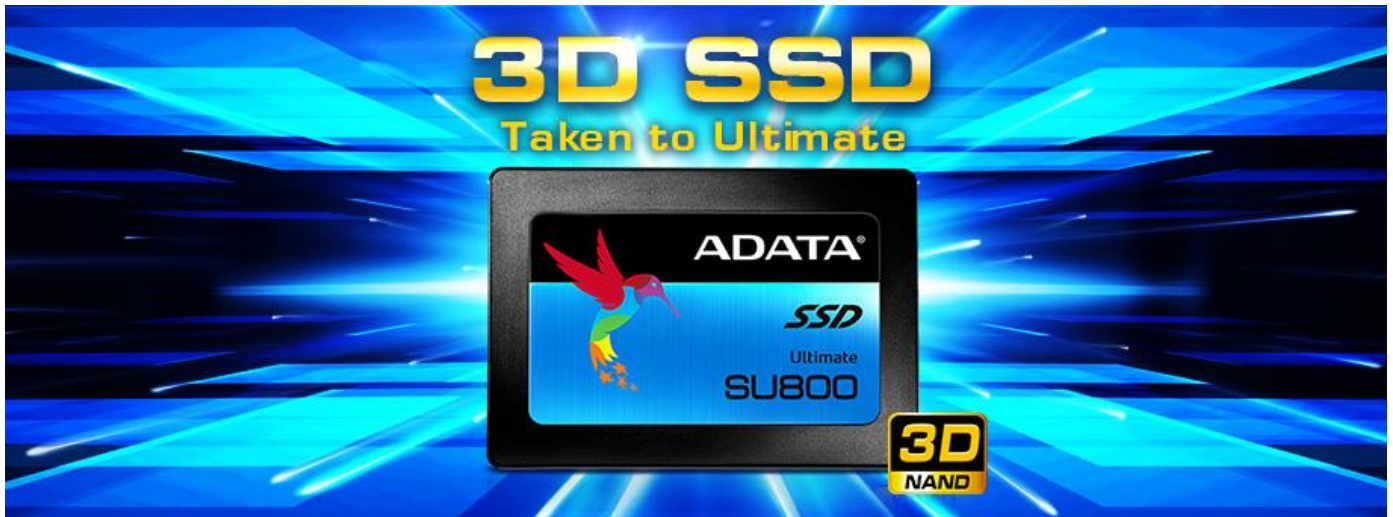# ADATA Ultimate SU800 3D NAND SSD

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 NAND Flash

● SMI Controller

● Wide capacity range: 128GB to 2TB

● Advanced hardware LDPC ECC Technology

● Intelligent SLC Caching and DRAM cache buffer

● DEVSLP (Device Sleep) support

● 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
2TB	ASU800SS-2TT-C	4713218466594

Specifications

● Capacity: 128GB / 256GB / 512GB / 1TB / 2TB

● Controller: SMI

● NAND Flash: 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	ATTO		CDM		AS SSD		4K Random		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)	
128GB	Up to 560	Up to 420	Up to 550	Up to 400	Up to 530	Up to 400	50K	75K	100TB
256GB	Up to 560	Up to 520	Up to 550	Up to 500	Up to 530	Up to 490	80K	85K	200TB
512GB	Up to 560	Up to 520	Up to 550	Up to 500	Up to 530	Up to 490	85K	85K	400TB
1TB	Up to 560	Up to 520	Up to 550	Up to 500	Up to 530	Up to 490	80K	80K	800TB
2TB	Up to 560	Up to 520	Up to 550	Up to 500	Up to 520	Up to 480	80K	80K	1600TB

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

Schematics