

Ultimate SU800 SSD

3D SSD Taken To Ultimate



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
- Advanced hardware LDPC ECC Technology
- Intelligent SLC Caching and DRAM cache buffer
- High TBW for extended drive longevity
- DEVSLP (Device Sleep) support
- Supports S.M.A.R.T., TRIM Command, and NCQ
- Free software: SSD Toolbox and Migration Utility

Ordering Information

<Global>

Capacity	Model Number	EAN Code
256GB	ASU800SS-256GT-C	4712366967250
512GB	ASU800SS-512GT-C	4712366967267
1TB	ASU800SS-1TT-C	4712366967274

<TW region>

Capacity	Model Number	EAN Code
256GB	ASU800SS-256GT-C-5Y	4711085932945
512GB	ASU800SS-512GT-C-5Y	4711085932952
1TB	ASU800SS-1TT-C-5Y	4711085932969

Specifications

- Capacity: 256GB / 512GB / 1TB
- Controller: SM2258
- NAND Flash: 3D TLC
- Interface: SATA 6Gb/s (SATA III)
- Form Factor: 2.5"
- Sequential read/write (Max.):
Read 560MB/s ; write 520MB/s
- 4K random read/write IOPS (Max.): 85K/85K
- Terabytes Written (TBW)(Max. capacity): 800TB
- Dimensions (L x W x H): 100.45 x 69.85 x 7mm
- Weight: 47.5g / 1.67oz
- MTBF: 2,000,000 hours
- 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, UKCA, Morocco, RCM, EAC
- Warranty: 3-year limited warranty*

*As of 2020.07.01, the limited warranty period has been extended to 5-year, before 2020.06.30 will retain 3-year for the TW region.

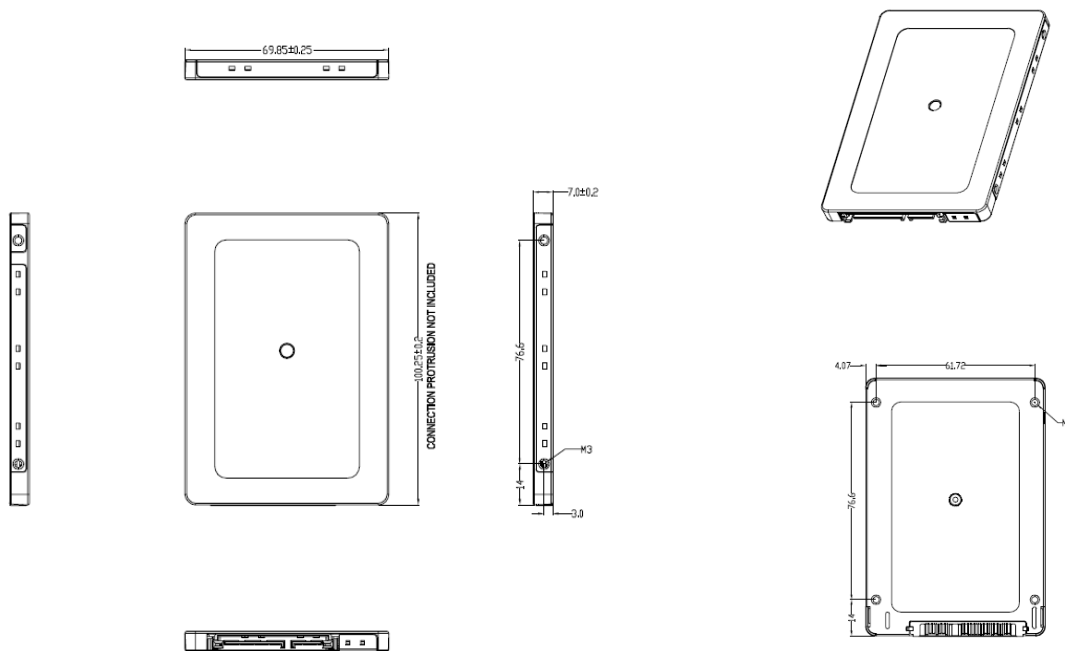
Performance

Capacity	Sequential Performance (Up to) ¹		4K Random (Up to) ¹		TBW ²
	Read (MB/s)	Write (MB/s)	Read (IOPS)	Write (IOPS)	
256GB	560	520	80K	85K	200TB
512GB	560	520	85K	85K	400TB
1TB	560	520	80K	80K	800TB

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

²The value is the minimum amount of terabyte written that could be reached.

Schematics



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

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

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