



Ultimate SU680 3D NAND SSD

The Ultimate SU680 solid state drive implements 3D NAND Flash and a high speed controller, offering capacities up to 1TB. It delivers read/write performance up to 520/450MB/s and greater reliability than 2D NAND SSDs. The SU680 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 SU680 is an excellent choice with a great cost-performance ratio.

Features

- 3D NAND Flash for higher durability and capacity
- Wide capacity range: 120GB to 1TB
- 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
120GB	AULT-SU680-120GR	4711085939845
240GB	AULT-SU680-240GR	4711085939852
480GB	AULT-SU680-480GR	4711085939876
960GB	AULT-SU680-960GR	4711085939890
1TB	AULT-SU680-1TR	4711085943057

Capacity	Model Number	EAN Code	
256GB	AULT-SU680-256GR	4711085939869	
512GB	AULT-SU680-512GR	4711085939883	



Specification

• Capacity: 120GB / 240GB / 256GB /

480GB / 512GB / 960GB / 1TB

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

• 4K random read/write IOPS (Max.): 40K/75K

• Error correction: ECC

• Terabytes Written (TBW)(Max. capacity): 600TB

• Dimensions (L x W x H): 100.45 x 69.85 x 7mm

• Weight: 47.5g / 1.67oz

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, RoHS

Performance

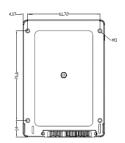
Capacity	Sequential Performance (Up to) ¹		4K Random (Up to) ¹		2
	Seq. Read (MB/s)	Seq. Write (MB/s)	Read (IOPS)	Write (IOPS)	TBW ²
120GB	520	320	20K	75K	70
240GB	520	450	40K	75K	140
480GB	520	450	40K	75K	280
960GB	520	450	40K	75K	560

Capacity	Sequential Performance (Up to) ¹		4K Random (Up to) ¹		
	Seq. Read (MB/s)	Seq. Write (MB/s)	Read (IOPS)	Write (IOPS)	TBW ²
256GB	520	450	40K	75K	140
512GB	520	450	40K	75K	280
1TB	520	450	40K	65K	600

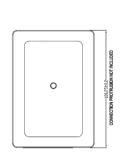
¹Performance may vary based on SSD capacity, hardware test platform, test software, operating system, and other system variables

Schematics





















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 $^{^{2}\}mbox{The value}$ is the minimum amount of terabyte written that could be reached.