

SATA SSD AST680S

Apacer
Access the best

Apacer AST680S

Reliable Solution for Computer System

Optimization

Apacer AST680S is a solid state drive (SSD) in standard 2.5" SATA

form factor. Designed in SATA 6 Gb/s interface, the drive can deliver outstanding performance up to 520 MB/s data transfer speed, highly suitable to serve as operating system boot drive or storage media of important data. The mechanical design of AST680S conforms to the latest requirements of SATA 6.0 Gbps interface. Hence, power efficiency wise, AST680S supports SATA power management modes which greatly cut power consumptions to make it an environmental and economical storage drive than traditional hard disk drives.

In terms of reliability, AST680S supports wear leveling, S.M.A.R.T., NCQ command, and ECC engine correcting up to 72bit per 1KB data. With the advantages of performance and reliability mentioned above, AST680S is proved to be the best companion for PC and laptop upgrade.

Features:

- SATA 6.0 Gb/s interface compliance
- Outstanding read/write performance
- Supports SATA Power Management
- Powerful ECC engine correcting up to 72bit/1KB
- Supports S.M.A.R.T. commands
- Supports TRIM commands



Applications

- PC/NB for general storage
- Operating system boot drive for PC/NB
- Network servers
- Industrial PCs
- Graphic and video applications
- Kiosk, POS and automation.
- Multimedia
- Gaming



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General Product Specifications

Specifications		
Interface	SATA 6.0 Gb/s interface	
SATA 6.0 Gbps Burst Speed	600 MB/s	
Capacity ¹	960 GB	
Performance ² (Unit: MB/s)	Read	Write
	520	485
Form Factor	2.5 inch	
NAND Flash Media	TLC	
ECC	Up to 72bit/1KB	
MTBF	1,000,000 hours (approx.)	
Operating Voltage	5V ± 5%	
Power consumption ³ (Unit: mA)	Active	1,200
	Idle	150
Dimension	100.10mm(L) x 69.85mm(W) x 7.00mm(H)	
Reliability Features	S.M.A.R.T, TRIM, Wear-leveling	
Temperature	Operating	0°C to 70°C
	Storage	-40°C to 85°C
Humidity	RH 90% under 40°C	
Shock ⁴	500G/2ms	
Vibration ⁴	80 – 2000Hz/20G	
Acoustic	0dB	
Warranty	3 years	
Package Content	Retail package	
Certifications	RoHS, CE, FCC	

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¹ Unformatted. Theoretically, 1GB=1,000,000,000 Bytes. Under operating systems, the capacity might appear to be less than the theoretical capacity because the calculation in OS is based on 1 GB = 1024 MB / 1MB =1024KB and a minority of the capacity is reserved for maintenance purposes.

² Performance results may vary from flash configurations or host system settings. Test results are based on ATTO platform.

³ Power consumption was measured at 5.0V and for 960 GB capacity only. The results may vary from flash configurations or host system settings.

⁴ Shock and vibrations are subject to change without notice.

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Ordering Information

Capacity	Bulk	Distributor/Retailer
960 GB	AP960GAST680S	AP960GAST680S-1

Revision History

Version	Description	Date
1.0	Official release	9/30/2015

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