

Apacer AS681

Reliable Solution for Computer System

Optimization

Apacer AS681 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 AS681 conforms to the latest requirements of SATA 6.0 Gbps interface. Hence, power efficiency wise, AS681 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, AS681 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, AS681 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



SATA SSD AS681



General Product Specifications

Specifications			
Interface	SATA 6.0 Gb/s interface		
SATA 6.0 Gbps Burst Speed	600 MB/s		
Capacity ¹	120 GB, 240 GB, 480 GB, 960 GB		
Performance ² (Unit: MB/s)	Capacity	Read	Write
	120 GB	495	385
	240 GB	515	475
	480 GB	520	480
	960 GB	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
120 GB	86.E7120.TDN0C
240 GB	86.E7240.TDN0C
480 GB	86.E7480.TCN0C
960 GB	86.E7960.TCN0C

Revision History

Version	Description	Date
1.0	Official release	6/7/2016

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