Apacer AST680S

The Speedy and Reliable Companion

for PC and Notebooks

Apacer AST680S solid state drive (SSD) is a speedy and reliable companion for consumer PC and laptops. Designed in SATA 6 Gb/s interface, the drive can deliver outstanding performance up to 525 MB/s data transfer speed, highly suitable to serve as operating system boot drive or storage media of important data. 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 addition, enhanced data integrity is enabled by a powerful ECC engine in the device correcting up to 120bit per 2KB data. With the advantages mentioned above, AST680S is proved to be the ideal companion for PC and laptop users.

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

Features:

- SATA 6.0 Gb/s interface compliance
- Outstanding read/write performance
- Supports SATA Power Management
- Powerful ECC engine correcting up to 120bit/2KB
- Supports S.M.A.R.T. commands
- TRIM

SATA SSD
AST680S

General Product Specifications

Specifications					
Interface	SATA 6 Gb/s interface				
SATA III Burst Speed	600 MB/s				
Capacity*	240GB \ 480 GB				
Performance**	240 GB	Read: up to 520 MB/s; Write: up to 500 MB/s			
	480 GB	Read: up to 525 MB/s; Write: up to 500 MB/s			
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*** (unit: mA)	Capacity	Operating	Idle	Partial	Slumber
	240 GB	3350	645	530	530
	480 GB	3680	655	535	535
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℃ to 70℃			
	Storage	-40 ~ +85℃			
Humidity	RH 90% under 40℃				
Shock****	500G/2ms				
Vibration****	80 – 2000Hz/20G				
Acoustic	0dB				
Warranty	3 years				
Package Content	Retail package				
Certifications	RoHS, CE, FCC, BSMI				

*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.
**Performance results may vary from flash configurations or host system settings. Test results are based on ATTO platform.
***Power consumption were measured at 5.0V and results may vary from flash configurations or host system settings.
****Shock and vibrations are subject to change without notice

Global Offices

Taiwan (HQ)

Apacer Technology Inc.
1F. No.32, Zhongcheng Rd.,
Tucheng Dist., New Taipei City
Taiwan 221
R.O.C.
Tel: +886-2-2267-8000
Fax: +886-2-2267-2261
amtsales@apacer.com

U.S.A

Apacer Memory America, Inc.
46732 Lakeview Blvd.,
Fremont, CA 94538
Tel: 1-408-518-8699
Fax: 1-510-249-9568
sa@apacerus.com

Japan

Apacer Technology Corp.
5F, Matsura Bldg., Shiba, Minato-Ku
Tokyo, 105-0014, Japan
Tel: 81-3-5419-2668
Fax: 81-3-5419-0018
jpservices@apacer.com

Europe

Apacer Technology B.V.
Science Park Eindhoven 5051 5692
EB Son,
The Netherlands
Tel: 31-40-267-0000
Fax: 31-40-267-0000#6199
sale@apacer.nl

China

Apacer Electronic (Shanghai) Co., Ltd
Room D,22/FL,No2,Lane600,JieyunPlaza, Tianshan RD,Shanghai,200051,China
Tel: 86-21-6228-9939
Fax: 86-21-6228-9936
sales@apacer.com.cn

India

Apacer Technologies Pvt Ltd,
Unit No.201, "Brigade Corner",
7th Block Jayanagar, Yediyur Circle,
Bangalore – 560082, INDIA.
Tel: +91-80-4152-9061/62/63
Fax:+91-80-4170-0215
Sales_india@apacer.com

Ordering Information

Capacity	Bulk	Distributor/Retailer
240 GB	AP240GT680SB	AP240GAST680S-1
480 GB	AP480GT680SB	AP480GAST680S-1

Revision History

Version	Description	Date
1.0	First release	04/24/2015
1.1	Changed product drawing	04/28/2015
1.2	Revised ordering information	08/21/2015

Apacer Technology Inc.

1F., No.32, Zhongcheng Rd., Tucheng Dist., New Taipei City
Tel: +886-2-2267-8000   Fax: +886-2-2267-2261
www.apacer.com