

Apacer SC Series

The Speedy and Reliable Companion for PC and Notebooks

Apacer SC series 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 550 MB/s data transfer speed, highly suitable to serve as operating system boot drive or storage media of important data. Power efficiency wise, SC series 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 LDPC ECC engine in the device correcting. With the advantages mentioned above, SC series is proved to be the ideal companion for PC and laptop users.

Features:

- SATA 6.0 Gb/s interface compliance
- Outstanding read/write performance
- Supports SATA Power Management
- Powerful LDPC ECC engine
- Supports S.M.A.R.T. commands
- TRIM

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

General Product Specifications

Specifications					
Interface	SATA 6 Gb/s interface				
SATA III Burst Speed	600 MB/s				
Capacity ¹	120, 240, 480, 960 GB				
Performance ²	Capacity	Read (unit: MB/s)	Write (unit: MB/s)		
	120 GB	500	350		
	240 GB	550	490		
	480 GB	550	490		
	960 GB	550	490		
Form Factor	2.5 inch				
ECC	LDPC				
NAND Flash	3D TLC				
MTBF	2,000,000 hours				
Operating Voltage	5V ± 5%				
Power Consumption ³ (unit: mW)	Capacity	Operating	Idle	Partial	Slumber
	120 GB	1,710	19	15	320
	240 GB	1,720	19	15	320
	480 GB	1,750	19	15	320
	960 GB	1,750	19	15	320
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	1500G/0.5ms				
Vibration ⁴	80 – 2000Hz/20G				
Acoustic	0dB				
Warranty	3 years or 300 P/E cycles (whichever occurs first)				
Package Content	Industrial package				
Certifications	RoHS, CE, FCC, BSMI				

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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 were measured at 5.0V and results may vary from flash configurations or host system settings.

⁴ Shock and vibrations are subject to change without notice.

Ordering Information

Capacity	Part Number
120 GB	AP120GSC25
240 GB	AP240GSC25
480 GB	AP480GSC25
960 GB	AP960GSC25

Revision History

Version	Description	Date
2.0	Revised to 3D TLC solution	1/24/2017
2.1	Added warranty period	9/6/2017
2.2	Updated warranty period	9/11/2017
2.3	Added 480 and 960GB support	3/25/2019

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