

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 520 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 ECC engine in the device correcting up to 120bit per 2KB data. With the advantages mentioned above, SC series 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

General Product Specifications

Specifications					
Interface	SATA 6 Gb/s interface				
SATA III Burst Speed	600 MB/s				
Capacity ¹	30, 60, 480, 960 GB				
Performance ²	30 GB	Read: up to 380 MB/s; Write: up to 85 MB/s			
	60 GB	Read: up to 440 MB/s; Write: up to 205 MB/s			
	480 GB	Read: up to 520 MB/s; Write: up to 480 MB/s			
	960 GB	Read: up to 520 MB/s; Write: up to 500 MB/s			
Form Factor	2.5 inch				
NAND Flash Media	MLC				
ECC	Up to 120bit/2KB				
MTBF	1,000,000 hours (approx.)				
Operating Voltage	5V ± 5%				
Power Consumption ³ (unit: mW)	Capacity	Operating	Idle	Partial	Slumber
	30 GB	240	50	50	30
	60 GB	300	50	56	30
	480 GB	770	50	265	265
	960 GB	1,040	80	285	280
Dimensions	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 ⁵	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
30 GB	AP030GSC25
60 GB	AP060GSC25
480 GB	AP480GSC25
960 GB	AP960GSC25

Revision History

Version	Description	Date
1.0	Official release	06/03/2016
1.1	Revised warranty period	06/13/2016
1.2	Simplified model name to “SC series”	06/28/2016
1.3	- Revised performance values for 480 GB - Revised power consumption values - Deleted endurance specifications - Added 960GB support	08/03/2016
1.4	Revised package content from retail package to industrial package	08/10/2016
1.5	Added 30GB support	09/02/2016
1.6	- Removed 120-240 GB support - Changed 30-60 GB to 32-64 GB - Updated performance - Updated product ordering information - Removed product photos - Revised ECC to up to 120bit/2KB	08/23/2017
1.7	- Changed 32-64 GB to 30-60 GB - Updated warranty period	09/06/2017
1.8	Updated warranty period	09/11/2017

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