

Apacer SC Series

Speedy and Reliable Companion for PC and Notebooks



Apacer's SC series is the next generation modularized Solid State Drive (SSD) with the shape of all new M.2 form factor, aimed to be the more suitable for mobile and compact computers. SC series appears in M.2 2280 mechanical dimensions and is believed to be the leading add-in storage solution for future host computing systems. M.2 is designed with SATA-based connector pinouts, providing full compliance with the latest SATA Revision 3.2 interface specifications. Aside from SATA compliance, SC series delivers exceptional performance and power efficiency. On the other hand, the extreme thin and light form factor makes SC series the ideal choice for mobile computing systems, which appears to be the trend in near future. SC series supports wear leveling, S.M.A.R.T. and NCQ command. In addition, to enhance data integrity, SC series is built with a powerful ECC engine in the controller unit, correcting up to 72bit per 1KB data. For better I/O performance, the controller unit comes with a SDR cache buffer and data processing units to strengthen the IOPS (Input Output Per Second) of the device, proving 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:

- Compatible with SATA 6.0 Gb/s interface
- Outstanding read/write performance
- Supports SATA Power Management
- Powerful ECC engine correcting up to 72bit/1KB
- SDR cache buffer for strengthened I/O efficiency
- Supports S.M.A.R.T. commands
- NCQ command

General Product Specifications

Specifications				
Interface	SATA 6.0 Gb/s interface			
SATA 6.0 Gbps Burst Speed	600 MB/s			
Capacity ¹	60, 120, 240 GB			
Performance ²	Capacity	60GB	120GB	240GB
	Sequential read (MB/s)	Up to 520		
	Sequential write (MB/s)	Up to 100	Up to 200	Up to 400
Form Factor	M.2 2280-D5-B-M			
NAND Flash Media	MLC			
ECC	Up to 72bit/1KB			
MTBF	1,000,000 hours (approx.)			
Operating Voltage	3.3V ± 5%			
Power consumption ³ (unit: mA)	Capacity	60GB	120GB	240GB
	Active	385	610	610
	Idle	40	125	125
Dimensions	80mm (L) x 22mm (W) x 3.8mm (H)			
Endurance ⁴	Capacity	60GB	120GB	240GB
	TBW	Up to 128	Up to 257	Up to 514
Technology Highlights	S.M.A.R.T, wear leveling, power failure management, NCQ command, SATA Power Management (Partial, Slumber, Auto-Slumber), TRIM			
Temperature	Operating	0°C to 70°C		
	Storage	-40°C to 85°C		
Humidity	Operating	25°C, 8% ~ 95%, non-condensing		
	Non-operating	40°C, 8% to 93%, non-condensing		
Shock ⁵	Sine, 3.13G, 5~800Hz			
Vibration ⁵	Half sine, 1500G/1.0msec			

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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 3.3V and results may vary from flash configurations or host system settings.

⁴ Estimated under typical PC user behaviors, NAND endurance cycles, write amplification and wear leveling factors.

⁵ Shock and vibrations are subject to change without notice.

M.2 SSD SC Series



Specifications	
Warranty	2 years
Package Content	Retail package
Certifications	RoHS, CE, FCC, VCCI

Ordering Information

Capacity	Part Number
60GB	AP060GSC80
120GB	AP120GSC80
240GB	AP240GSC80

Revision History

Version	Description	Date
1.0	Official release	6/15/2016
1.1	- Simplified model name to "SC series" - Revised ordering information	6/28/2016

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