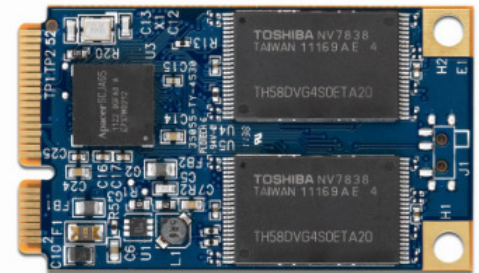


Apacer AS220

Speedy and Reliable Companion for PC and Notebooks



Apacer AS220 is a compact solid state drive (SSD) in mSATA (JEDEC MO-300A) form factor. Designed in SATA 6.0 Gb/s interface, the drive can deliver outstanding performance up to 550 MB/s for read and 530 MB/s for write, highly suitable to serve as operating system boot drive or storage media of important data. With its compliance with SATA specification revision 3.0, this cutting edge device supports power management features such as Partial, Slumber, and Auto-slumber, which greatly saves power consumption, making it more environmental and economical than traditional hard disk drives. Being a reliable storage solution, AS220 supports wear leveling, S.M.A.R.T. and NCQ command. To enhance data integrity, the device 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 DDR3 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
- DDR3 cache buffer for strengthened I/O efficiency
- Supports S.M.A.R.T. commands
- Compliance with mSATA JEDEC MO-300A form factor
- NCQ command

SATA SSD AS220



General Product Specifications

Specifications					
Interface	SATA 6.0 Gb/s interface				
SATA 6.0 Gbps Burst Speed	600 MB/s				
Capacity*	32/64/128/256 GB				
Performance**		32 GB	64 GB	128 GB	256 GB
	Sequential read (MB/s)	530	530	530	550
	Sequential write (MB/s)	450	450	430	530
	Random read 4K (IOPS)	39,000	38,000	36,000	40,000
	Random write4K (IOPS)	18,000	18,000	19,000	42,000
Form Factor	mSATA JEDEC-MO300A				
NAND Flash Media	MLC				
ECC	up to 72bit/1KB				
MTBF	1,000,000 hours (approx.)				
Operating Voltage	3.3V ± 5%				
Power consumption*** (unit: Watt)	Active		Idle		
	0.6		0.18		
Dimensions	50.80 x 29.85 x 4.85, unit: mm				
Reliability Features	S.M.A.R.T, wear leveling, power failure management, NCQ command, SATA Power Management (Partial, Slumber, Auto-Slumber)				
Temperature	Operating	0°C to 70°C			
	Storage	-40 ~ +85°C			
Humidity	Operating: 25°C, 8% ~ 95%, non-condensing Non-operating: 40°C, 8% to 93%, non-condensing				
Shock****	Sine, 3.13G, 5~800Hz				
Vibration****	Half sine, 1500G/1.0msec				
Warranty	3 years				
Package Content	Retail package				
Certifications	RoHS, CE, FCC, VCCI				

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SATA SSD AS220



*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.

***Power consumption were measured at 3.3V and results may vary from flash configurations or host system settings.

****Shock and vibrations are subject to change without notice

Ordering Information

Capacity	Bulk	Distributor/Retailer
32 GB	AP32GAS220	AP32GAS220B-1
64 GB	AP64GAS220	AP64GAS220B-1
128 GB	AP128GAS220	AP128GAS220B-1
256 GB	AP256GAS220	AP256GAS220B-1

Revision History

Version	Description	Date
0.1	Preliminary release	01/23/2013
0.2	Removed 256GB model	07/11/2013
0.3	Added product image	07/12/2013
0.4	Added shock and vibration information	07/15/2013
0.5	Added Product Ordering Information	07/15/2013
0.6	Revised the MTBF to 2,000,000 hours Updated Taiwan Headquarter address	07/25/2013
1.0	Official release	01/14/2013
1.1	Updated performance	04/17/2014

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