SA500
2.5 inch SSD

DATA SHEET

Netac SA500 SSD with implementing 3D TLC/QLC NAND Flash and an advanced controller, and is also designed to improve the response speed of notebooks and desktops, which delivers read speed up to 530MB/s and write speed up to 475MB/s for fast startup, loading, and data transmission. It can easily upgrade the machine with wide compatibility for laptops, desktops, and integrated computers.

Highlights

• High performance and cost effective
• Supports SLC Caching
• Supports S.M.A.R.T./TRIM Command/NCQ
• 3-year limited warranty

Best-Fit Applications

• Laptops
• Desktop PCs

High-speed Interface

With SATAIII 6 Gb/s high-speed interface, the reading speed can be up to 530MB/s and drastically reduce the boot time.

Stabilization Performance

With functions permanent and stable, the well-chosen 3D NAND Chips can adapt various and complex environment.

Massive Expansion

Provide a variety of capacity options from 120GB-1TB to meet diverse storage needs.

Quality Guarantee

Netac products after a series of rigorous testing, ensure the compatibility and reliability of products, and we provide you with a 3-year warranty service to leave all your worries behind.

Specification	120GB/128GB	240GB/256GB	480GB/512GB	960GB/1TB
Model Number	NT01SA500-120-S3X NT01SA500-128-S3X	NT01SA500-240-S3X NT01SA500-256-S3X	NT01SA500-480-S3X NT01SA500-512-S3X	NT01SA500-960-S3X NT01SA500-1T0-S3X
Interface	SATAIII 6GB/s (Backward compatible to SATAII 3Gb/s and SATAI 1.5Gb/s)			
Form Factor	2.5 inch	2.5 inch	2.5 inch	2.5 inch
Performance				
Max. Sequential Read (MB/s)	500	520	520	530
Max. Sequential Write (MB/s)	400	450	450	475
Total Bytes Written (TBW)	60	120	240	480
Environmental				
Storage Temperature	-40°C~85°C	-40°C~85°C	-40°C~85°C	-40°C~85°C
Operation Temperature	0°C~70°C	0°C~70°C	0°C~70°C	0°C~70°C
Shock Resistance	1500G duration 0.5ms, Half Sine Wave	1500G duration 0.5ms, Half Sine Wave	1500G duration 0.5ms, Half Sine Wave	1500G duration 0.5ms, Half Sine Wave
MTBF	1.5M hours	1.5M hours	1.5M hours	1.5M hours
Limited Warranty(Years)	3	3	3	3
Physical				
Length	100.0mm	100.0mm	100.0mm	100.0mm
Width	69.85mm	69.85mm	69.85mm	69.85mm
Height	7.0mm	7.0mm	7.0mm	7.0mm
Weight	46g	46g	46g	46g

Special Noted:

1. Performance measured using CrystalDiskMark 8.0.0 x64.

2. Write cache enabled.

3. 3 years or Max Endurance(TBW) limit, whichever occurs first.

4. 1MB/sec = 1,048,576 bytes/sec was used in sequential performance.

5. 1GB means 1,000,000,000 bytes, actual available capacity less.

6. According to internal test, transmission rate may vary depending on host hardware, software and usage.

7. For more details please consult your distributor.

Netac Technology Co., Ltd.

Ver. 02-11-2022