

## 2.5" SATA SSD 960GB & 1TB

### Specification

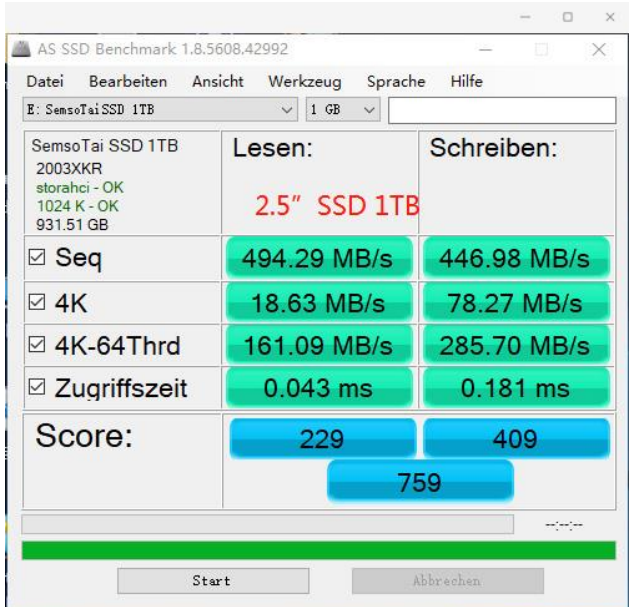


Made by	Audit by	Date
Mr. ARUN	Mr. LEX	2020. 5. 22

Item	Model Name	2.5 " SATA SSD		
Solution	Capacity	960GB/1TB		
	Controller/FLASH	SMI +Intel/sandisk/micron		
	Flash Type	TLC (Flash)		
	Cache	N/A		
	Case	N/A		
	Case color	N/A		
	Size	53.5*42.65*5.65mm (Length×Width×Height)		
	Interface	Standard SATAIII, SATA3.0, 22 Pin, 6Gbps		
	Operating System	Windows XP, Windows 7, Windows 8, Windows 10, Windows 2003, Windows 2008, DOS, Linux, Unix		
Performance	Capacity	1TB	960GB	
	Channel	4CH	4CH	
	Speed up to (MB/s) Read/Write	494/446	494/446	
	4K-64Thrd Read (MB/s)	161	161	
	4K-64Thrd Write (MB/s)	285	285	
	Average Access time	0.15ms		
	Electric	Input Voltage	5V ±5%	
Stand by		0.6W		
Working		3.8W		
Reliability and Stability	Lifetime	8years (100GB/day)		WLE; WAF;
	Date Retention time	10 years under 25°C		
	ECC	66-bit/1KB		
	FLASH Management	Bad block management algorithm		



# ValueTech

Environment	Working Temperature	0°C~70°C																								
	Storage Temperature	-20~75°C																								
	Humidity	5-95%																								
Certification	CE, ROHS, FCC																									
Mass Production	Started	NO EOL																								
Testing Platform	CPU: Ryzen 3 1200 CPU @ 3.10GHz Chipset: AMD® GA-B450 Express Chipset Memory OS: Microsoft Windows 10 Professional 64-bit AHCI Driver: Intel Chipset SATA AHCI Controller 10.5.1.1001 BIOS Settings: AHCI Mode																									
Screen print of AS SSD Benchmark Testing	 <p>AS SSD Benchmark 1.8.5608.42992</p> <p>E: SemsoTaiSSD 1TB   1 GB</p> <p>SemsoTai SSD 1TB 2003XKR storahci - OK 1024 K - OK 931.51 GB</p> <table border="1"> <thead> <tr> <th></th> <th>Lesen:</th> <th>Schreiben:</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align: center;"><b>2.5" SSD 1TB</b></td> </tr> <tr> <td><input checked="" type="checkbox"/> Seq</td> <td>494.29 MB/s</td> <td>446.98 MB/s</td> </tr> <tr> <td><input checked="" type="checkbox"/> 4K</td> <td>18.63 MB/s</td> <td>78.27 MB/s</td> </tr> <tr> <td><input checked="" type="checkbox"/> 4K-64Thrd</td> <td>161.09 MB/s</td> <td>285.70 MB/s</td> </tr> <tr> <td><input checked="" type="checkbox"/> Zugriffszeit</td> <td>0.043 ms</td> <td>0.181 ms</td> </tr> <tr> <td>Score:</td> <td>229</td> <td>409</td> </tr> <tr> <td></td> <td colspan="2" style="text-align: center;">759</td> </tr> </tbody> </table> <p>Start   Abbrechen</p>			Lesen:	Schreiben:	<b>2.5" SSD 1TB</b>			<input checked="" type="checkbox"/> Seq	494.29 MB/s	446.98 MB/s	<input checked="" type="checkbox"/> 4K	18.63 MB/s	78.27 MB/s	<input checked="" type="checkbox"/> 4K-64Thrd	161.09 MB/s	285.70 MB/s	<input checked="" type="checkbox"/> Zugriffszeit	0.043 ms	0.181 ms	Score:	229	409		759	
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Product  
s Image





Remark	Different test parameters from different platforms and flash configurations will be slightly different
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