



# Enterprise SATA SSD

## Product features:

- SATA 3.2 compatible with 6/3/1.5 Gb/s rates
- ATA/ATAPI ACS3 command set compliant
- NCQ: Up to 32 Queue Depth
- Enhance SMART ATA feature set
- Data set management TRIM command
- OS aware host hot plug / removal
- AES-256 encryption
- Controller: Marvell 88SS1074 / 88SS1080
- DRAM: DDR3/DDR4
- Flash: 3D TLC / pSLC
- UBER: <1 sector per 10<sup>17</sup> bits read
- MTBF: 2.0 million hours
- Mechanical form factor: 100.5 mm x 69.85 mm x 7 mm(2.5-inch)

## Detailed specifications

Edition	Standard					
Capacity	480GB	960GB	1920GB	3840GB	7680GB	15360GB
PN	S480GS301	S960GS301	S1T92S301	S3T84S301	S7T68S301	S15T3S301
Parameter						
Sequential Read (128KB)	435 MB/s	435 MB/s	545 MB/s	545 MB/s	550 MB/s	540 MB/s
Sequential write (128KB)	415 MB/s	415 MB/s	520 MB/s	520 MB/s	520 MB/s	440 MB/s
Random read (4KB)	64,000 IOPS	74,000 IOPS	93,000 IOPS	95,000 IOPS	76,000 IOPS	32,000 IOPS
Random write (4KB)	10,000 IOPS	14,000 IOPS	24,000 IOPS	24,000 IOPS	11,000 IOPS	5,000 IOPS
TWB	520 TB	1,040 TB	2,080 TB	4,160 TB	8,320 TB	16,640 TB
Operating temperature	0–70 °C					
Storage temperature	-40–85 °C					
Power supply voltage range	5.0 V ± 10%					
DWPD	1					



<b>Edition</b>	<b>Pro</b>				
<b>Capacity</b>	480GB	960 GB	1920 GB	3840 GB	7680 GB
<b>PN</b>	S480GS301-P	S960GS301-P	S1T92S301-P	S3T84S301-P	S7T68S301-P
<b>Parameter</b>					
<b>Sequential Read (128KB)</b>	545 MB/s	545 MB/s	545 MB/s	545 MB/s	550 MB/s
<b>Sequential write (128KB)</b>	520 MB/s	520 MB/s	525 MB/s	525 MB/s	525 MB/s
<b>Random read (4KB)</b>	87,000 IOPS	92,000 IOPS	93,000 IOPS	95,000 IOPS	75,000 IOPS
<b>Random write (4KB)</b>	41,000 IOPS	46,000 IOPS	46,000 IOPS	31,000 IOPS	14,000 IOPS
<b>TWB</b>	860 TB	1,720 TB	3,440 TB	6,880 TB	13,760 TB
<b>Operating temperature</b>	0–70 °C				
<b>Storage temperature</b>	-40–85 °C				
<b>Power supply voltage range</b>	5.0 V ± 10%				
<b>DWPD</b>	<b>1</b>				