

Enterprise SATA 3.2 SSD

Product Specifications

Interface	SATA 3.2					
Edition	Standard					
Capacity	480GB	960GB	1920GB	3840GB	7680GB	15360GB
PN	STS480GS3S200	STS960GS3S200	STS1T92S3S200	STS3T84S3S200	STS7T68S3S200	STS15T3S3S200
Flash Type	3D TLC	3D TLC	3D TLC	3D TLC	3D TLC	3D TLC
Controller	Marvell 88SS1074 / 88SS1080					
DRAM	DDR3 / DDR4					
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
TBW	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%					
Compatibility	Windows/Windows Server/CentOS, Fedora, FreeBSD, openSUSE, Red Hat, Ubuntu, VMware ESXi, Citrix, KVM					
DWPD	0.6					
Mechanical Form Factor	2.5-inch: 100.5 mm x 69.85 mm x 7 mm					

Interface	SATA 3.2				
Edition	Pro				
Capacity	480GB	960 GB	1920 GB	3840 GB	7680 GB
PN	STS480GS3P200	STS960GS3P200	STS1T92S3P200	STS3T84S3P200	STS7T68S3P200
Flash Type	3D TLC	3D TLC	3D TLC	3D TLC	3D TLC
Controller	Marvell 88SS1074 / 88SS1080				
DRAM	DDR3 / DDR4				
Sequential Read (128KB)	545 MB/s	545 MB/s	545 MB/s	545 MB/s	550 MB/s
Sequential Write (128KB)	520 MB/s	520 MB/s	525 MB/s	525 MB/s	525 MB/s
Random Read (4KB)	87,000 IOPS	92,000 IOPS	93,000 IOPS	95,000 IOPS	75,000 IOPS
Random Write (4KB)	41,000 IOPS	46,000 IOPS	46,000 IOPS	31,000 IOPS	14,000 IOPS
TBW	860 TB	1,720 TB	3,440 TB	6,880 TB	13,760 TB
Operating Temperature	0-70 °C				
Storage Temperature	-40-85 °C				
Power Supply Voltage Range	5.0 V ± 10%				
Compatibility	Windows/Windows Server/CentOS, Fedora, FreeBSD, openSUSE, Red Hat, Ubuntu, VMware ESXi, Citrix, KVM				
DWPD	1				
Mechanical Form Factor	2.5-inch: 100.5 mm x 69.85 mm x 7 mm				

Key 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
- Hardware Power Loss Protection (HWPLP)
- Advanced LDPC error correction
- UBER: <1 sector per 10^{17} bits read
- MTBF: 2.0 million hours
- High I/O performance and throughput bandwidth
- Advanced flash management and global wear leveling algorithm that extend drive life
- End-to-End Data path protection
- RAID ECC for exceptional reliability and stability

Physical dimension diagram

