

## D3 S4520 2.5" 7.68 TB Serial ATA III TLC 3D NAND

**Brand :** Intel

**Product family:** D3

**Product code:**  
SSDSC2KB076TZ01

**Product name :** Intel® SSD  
D3-S4520 Series (7.68TB, 2.5in  
SATA 6Gb/s, 3D4, TLC)



SSDSC2KB076TZ01

D3 S4520 2.5" 7.68 TB Serial ATA III TLC 3D NAND:

### Enhanced Power Loss Data Protection

Enhanced Power Loss Data Protection prepares the SSD for unexpected system power loss by minimizing data in transition in temporary buffers, and uses on-board power-loss protection capacitance to provide enough energy for the SSD firmware to move data from the transfer buffer and other temporary buffers to the NAND, thus protecting system and user data.

### Hardware Encryption

Hardware encryption is data encryption done at the drive level. This is used to ensure that the data stored on the drive is secured from unwanted intrusion.

### End-to-End Data Protection

End-to-End Data Protection ensures integrity of stored data from the computer to the SSD and back.

### Temperature Monitoring and Logging

Temperature Monitoring and Logging uses an internal temperature sensor to monitor and log airflow and device internal temperature. The logged results can be accessed using the SMART command.

Features		Features	
Security algorithms	256-bit AES	Export Control Classification Number (ECCN)	5A992C
SSD form factor *	2.5"	Commodity Classification Automated Tracking System (CCATS)	G162706
SSD capacity *	7.68 TB	<b>Power</b>	
Interface *	Serial ATA III	Power consumption (idle)	1.4 W
Memory type *	TLC 3D NAND	<b>Operational conditions</b>	
NVMe *	✗	Operating temperature (T-T)	0 - 70 °C
Component for *	Server/workstation	Maximum operating temperature	70 °C
Hardware encryption *	✓	Operating vibration	2.17 G
Random read (4KB)	86000 IOPS	Non-operating vibration	3.13 G
Random write (4KB)	30000 IOPS	<b>Weight &amp; dimensions</b>	
Random read (100% span)	86000 IOPS	Width	80 mm
Random write (100% span)	30000 IOPS	Height	22 mm
Random latency - read (up to)	103 µs	<b>Logistics data</b>	
Random latency - write (up to)	57 µs	Harmonized System (HS) code	84717070
Sequential latency - read (up to)	37 µs	<b>Other features</b>	
Sequential latency - write (up to)	37 µs	Internal memory type	SATA 3.0 6Gb/S
End-to-End Data Protection	✓	Power consumption (active)	4.3 W
Enhanced Power Loss Data Protection technology	✓	Launch date	Q3'21
SSD temperature monitoring	✓	SSD endurance rating	36.5 PBW
Mean time between failures (MTBF)	2000000 h	SSD shock	1000G,0.5ms
		Sequential reading	550 MB/s
		Sequential writing speed	510 MB/s
		Status	Launched
		Processor family	Intel SSD D3



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