

D3 SSDSC2KB019TZ01 internal solid state drive 2.5" 1.92 TB Serial ATA III TLC 3D NAND



Brand : Intel

Product family: D3

Product code:
SSDSC2KB019TZ01

Product name : Intel® SSD
D3-S4520 Series (1.92TB, 2.5in
SATA 6Gb/s, 3D4, TLC)

SSDSC2KB019TZ01

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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	Mean time between failures (MTBF)	2000000 h
SSD form factor *	2.5"	Export Control Classification Number (ECCN)	5A992C
SSD capacity *	1.92 TB	Commodity Classification Automated Tracking System (CCATS)	G162706
Interface *	Serial ATA III	Power	
Memory type *	TLC 3D NAND	Power consumption (read)	3.1 W
NVMe *	✗	Power consumption (write)	3.1 W
Component for *	Server/workstation	Power consumption (idle)	1.1 W
Hardware encryption *	✓	Operational conditions	
Data transfer rate	6 Gbit/s	Operating temperature (T-T)	0 - 70 °C
Read speed	550 MB/s	Maximum operating temperature	70 °C
Write speed	510 MB/s	Operating vibration	2.17 G
Random read (4KB)	91000 IOPS	Non-operating vibration	3.13 G
Random write (4KB)	38000 IOPS	Operating shock	1000 G
Random read (100% span)	91000 IOPS	Non-operating shock	1000 G
Random write (100% span)	38000 IOPS	Logistics data	
Random latency - read (up to)	104 µs	Harmonized System (HS) code	84717070
Random latency - write (up to)	54 µs	Other features	
Sequential latency - read (up to)	37 µs	Internal memory type	SATA 3.0 6Gb/S
Sequential latency - write (up to)	38 µs	Power consumption (active)	3.1 W
End-to-End Data Protection	✓	Launch date	Q3'21
Enhanced Power Loss Data Protection technology	✓	SSD endurance rating	8.8 PBW
SSD temperature monitoring	✓	SSD shock	1000G,0.5ms
Uncorrectable Bit Error Rate (UBER) < 1 per 10 ¹⁷ bits read	< 1 per 10 ¹⁷ bits read	Sequential reading	550 MB/s
		Sequential writing speed	510 MB/s
		Status	Launched
		Processor family	Intel SSD D3



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