D3 SSDSC2KB960GZ01 internal solid state drive 2.5" 960 GB Serial ATA III TLC 3D NAND

Brand : Intel

Product family: D3

Product code: SSDSC2KB960GZ01

Product name : Intel® SSD D3-S4520 Series (960GB, 2.5in SATA 6Gb/s, 3D4, TLC)

SSDSC2KB960GZ01

D3 SSDSC2KB960GZ01 internal solid state drive 2.5" 960 GB 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	
Security algorithms	256-bit AES
SSD form factor *	2.5"
SSD capacity *	960 GB
Interface *	Serial ATA III
Memory type *	TLC 3D NAND
NVMe *	✗
Component for *	Server/workstation
Hardware encryption *	✓
Data transfer rate	6 Gbit/s
Read speed	550 MB/s
Write speed	510 MB/s
Random read (4KB)	90000 IOPS
Random write (4KB)	43000 IOPS
Random read (100% span)	90000 IOPS
Random write (100% span)	43000 IOPS
Random latency - read (up to)	102 µs
Random latency - write (up to)	49 µs
Sequential latency - read (up to)	36 µs
Sequential latency - write (up to)	36 µs
End-to-End Data Protection	✓
Enhanced Power Loss Data Protection technology	✓
SSD temperature monitoring	✓
Uncorrectable Bit Error Rate (UBER)	< 1 per 10^17 bits read

Features	
Mean time between failures (MTBF)	2000000 h
Export Control Classification Number (ECCN)	5A992C
Commodity Classification Automated Tracking System (CCATS)	G162706
Power	
Power consumption (read)	3.1 W
Power consumption (write)	3.1 W
Power consumption (idle)	1.1 W
Operational conditions	
Operating temperature (T-T)	0 - 70 °C
Maximum operating temperature	70 °C
Operating vibration	2.17 G
Non-operating vibration	3.13 G
Operating shock	1000 G
Non-operating shock	1000 G
Logistics data	
Harmonized System (HS) code	84717070
Other features	
Internal memory type	SATA 3.0 6Gb/S
Power consumption (active)	3.1 W
Launch date	Q3'21
SSD endurance rating	5.3 PBW
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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