

D3 SSDSC2KG038TZ01 internal solid state drive 2.5" 3.84 TB Serial ATA III TLC 3D NAND



Brand : Intel

Product family: D3

Product code:
SSDSC2KG038TZ01

Product name : Intel® SSD
D3-S4620 Series (3.84TB, 2.5in
SATA 6Gb/s, 3D4, TLC)

SSDSC2KG038TZ01

D3 SSDSC2KG038TZ01 internal solid state drive 2.5" 3.84 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	Mean time between failures (MTBF)	2000000 h
SSD form factor *	2.5"	Export Control Classification Number (ECCN)	5A992C
SSD capacity *	3.84 TB	Commodity Classification Automated Tracking System (CCATS)	G162706
Interface *	Serial ATA III	Power	
Memory type *	TLC 3D NAND	Power consumption (read)	3.9 W
NVMe *	✗	Power consumption (write)	3.9 W
Component for *	Server/workstation	Power consumption (idle)	1.3 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)	60000 IOPS	Operating shock	1000 G
Random read (100% span)	91000 IOPS	Non-operating shock	1000 G
Random write (100% span)	60000 IOPS	Weight & dimensions	
Random latency - read (up to)	104 µs	Height	7 mm
Random latency - write (up to)	45 µs	Logistics data	
Sequential latency - read (up to)	36 µs	Harmonized System (HS) code	84717070
Sequential latency - write (up to)	38 µs	Other features	
End-to-End Data Protection	✓	Internal memory type	SATA 3.0 6Gb/S
Enhanced Power Loss Data Protection technology	✓	Power consumption (active)	3.9 W
SSD temperature monitoring	✓	Launch date	Q3'21
Uncorrectable Bit Error Rate (UBER) < 1 per 10 ¹⁷ bits read		SSD endurance rating	35.1 PBW
		SSD shock	1000G,0.5ms
		Sequential reading	550 MB/s

Other features

Sequential writing speed	510 MB/s
Status	Launched
Processor family	Intel SSD D3



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