

Intel SSDSC2KB038T801 internal solid state drive 2.5" 3.84 TB Serial ATA III TLC 3D NAND

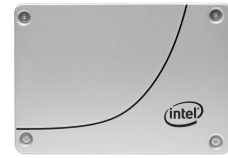
Brand : Intel

Product code: SSDSC2KB038T801

Product name : SSDSC2KB038T801

3840GB, 2.5", Serial ATA III, 3D2 TLC

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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.

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.

End-to-End Data Protection

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

Features		Brand-specific features	
NAND flash type	TLC (Triple Level Cell)	Intel® Remote Secure Erase	✗
Security algorithms	256-bit AES	Intel® Smart Response Technology	✗
SSD form factor *	2.5"	Intel Smart Response Technology version	0.00
SSD capacity *	3.84 TB	Operational conditions	
Interface *	Serial ATA III	Operating temperature (T-T)	0 - 70 °C
Memory type *	TLC 3D NAND	Maximum operating temperature	70 °C
NVMe *	✗	Operating vibration	2.17 G
Component for *	Server/workstation	Non-operating vibration	3.13 G
Hardware encryption *	✓	Operating shock	1000 G
Data transfer rate	6 Gbit/s	Non-operating shock	1000 G
Read speed	560 MB/s	Operating / non-operating shock	1000 G/0.5 msec
Write speed	510 MB/s	Logistics data	
Random read (100% span)	97000 IOPS	Harmonized System (HS) code	84717070
Random write (100% span)	32000 IOPS	Other features	
Read latency	36 µs	Product colour	Silver
Write latency	37 µs	Power consumption (active)	3.6 W
End-to-End Data Protection	✓	Drive capacity	3.84 TB
Enhanced Power Loss Data Protection technology	✓	Launch date	Q3'18
SSD temperature monitoring	✓	SSD endurance rating	9.9 PBW
Temperature monitoring and logging	✓	SSD hardware encryption	AES 256 bit
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 ¹⁷ bits read	SSD power consumption (active)	3.6W
Mean time between failures (MTBF)	2000000 h	SSD power consumption (idle)	1.1W
Market segment	Server	SSD shock	1000 G/0.5 msec
SSD ARK ID	134911	Sequential reading	560 MB/s
Export Control Classification Number (ECCN)	5A992C	Sequential writing speed	510 MB/s
		Status	Launched
		Last change	63903513

Features		Other features	
Commodity Classification		Processor family	Intel SSD D3
Automated Tracking System (CCATS)	G162706	Intel Rapid Start Technology version	0.00
Power		Remote Secure Erase (RSE) technology version	0.00
Power consumption (idle)	1.1 W	Product family	Data center SSD
Brand-specific features		Product series	Intel® SSD D3-S4510 Series
Intel High Endurance Technology (HET)	✘	Product codename	Youngsville Refresh
Intel® Rapid Start Technology	✘		



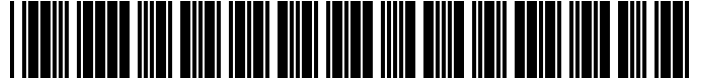
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