

Intel SSDSC2KB960G801 internal solid state drive 2.5" 960 GB Serial ATA III TLC 3D NAND

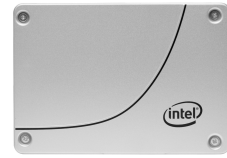
Brand : Intel

Product code: SSDSC2KB960G801

Product name : SSDSC2KB960G801

960GB, 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 *	960 GB	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)	95000 IOPS	Harmonized System (HS) code	84717070
Random write (100% span)	36000 IOPS	Other features	
Read latency	36 µs	Product colour	Silver
Write latency	37 µs	Drive capacity	960 GB
End-to-End Data Protection	✓	Launch date	Q3'18
Enhanced Power Loss Data Protection technology	✓	SSD endurance rating	3.5 PBW
SSD temperature monitoring	✓	SSD hardware encryption	AES 256 bit
Temperature monitoring and logging	✓	SSD power consumption (active)	3.0W
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 ¹⁷ bits read	SSD power consumption (idle)	1.0W
Mean time between failures (MTBF)	2000000 h	SSD shock	1000 G/0.5 msec
Market segment	Server	Sequential reading	560 MB/s
SSD ARK ID	134912	Sequential writing speed	510 MB/s
Export Control Classification Number (ECCN)	5A992C	Status	Launched
		Last change	63903513
		Processor family	Intel SSD D3

Features		Other features	
Commodity Classification		Intel Rapid Start Technology version	0.00
Automated Tracking System (CCATS)	G162706	Remote Secure Erase (RSE) technology version	0.00
Power		Product family	Data center SSD
Power consumption (idle)	1 W	Product series	Intel® SSD D3-S4510 Series
Brand-specific features		Product codename	Youngsville Refresh
Intel High Endurance Technology (HET)	✘		
Intel® Rapid Start Technology	✘		



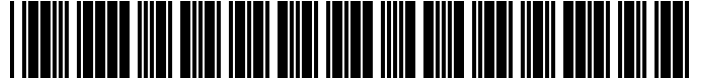
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