

Intel SSDSC2KW512G8X1 internal solid state drive 2.5" 512 GB Serial ATA III 3D TLC



Brand : Intel

Product code: SSDSC2KW512G8X1

Product name : SSDSC2KW512G8X1

SSD 545s Series (512GB, 2.5in SATA 6Gb/s, 3D2, TLC)

Intel SSDSC2KW512G8X1. SSD capacity: 512 GB, SSD form factor: 2.5", Read speed: 550 MB/s, Write speed: 500 MB/s, Data transfer rate: 6 Gbit/s, Component for: PC/Laptop

Features		Operational conditions	
NAND flash type	TLC (Triple Level Cell)	Operating temperature (T-T)	0 - 70 °C
Security algorithms	256-bit AES	Maximum operating temperature	70 °C
SSD form factor *	2.5"	Operating vibration	2.17 G
SSD capacity *	512 GB	Non-operating vibration	3.13 G
Interface *	Serial ATA III	Operating shock	1500 G
Memory type *	3D TLC	Non-operating shock	1500 G
Component for *	PC/Laptop	Operating / non-operating shock	1500 G (Max) at 0.5 msec
Hardware encryption *	✓	Weight & dimensions	
Data transfer rate	6 Gbit/s	Height	7 mm
Read speed	550 MB/s	Logistics data	
Write speed	500 MB/s	Harmonized System (HS) code	84717070
Read latency	50 µs	Other features	
Write latency	50 µs	Product colour	Grey
End-to-End Data Protection	✓	Drive capacity	512 GB
Enhanced Power Loss Data Protection technology	✗	Launch date	Q2'17
SSD temperature monitoring	✗	Product brief URL	https://www.intel.com/content/www/us/en/support/articles/000005884/memory-and-storage.html
Temperature monitoring and logging	✗	Random write (8GB span)	85000 IOPS
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 ¹⁵ bits read	SSD endurance rating	288 TBW
Mean time between failures (MTBF)	1600000 h	SSD hardware encryption	AES 256 bit
Market segment	Mobile	SSD power consumption (active)	4.5W
SSD ARK ID	125019	SSD power consumption (idle)	50mW
Power		SSD shock	1500 G (Max) at 0.5 msec
Power consumption (average)	4.5 W	Sequential reading	550 MB/s
Power consumption (idle)	0.05 W	Sequential writing speed	500 MB/s
Brand-specific features		Status	Launched
Intel High Endurance Technology (HET)	✗	Random read (8GB span)	75000 IOPS
Intel® Rapid Start Technology	✓	Last change	63903513
Intel® Remote Secure Erase	✗	Intel Rapid Start Technology version	1.00
Intel® Smart Response Technology	✓	Remote Secure Erase (RSE) technology version	0.00
Intel Smart Response Technology version	1.00	Product family	Consumer SSD
		Product series	Intel® SSD 545s Series
		Product codename	Liberty Harbor



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