

Intel SSDSC2KW512G8XT internal solid state drive 2.5" 512 GB Serial ATA III 3D TLC



Brand : Intel

Product code: SSDSC2KW512G8XT

Product name : SSDSC2KW512G8XT

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

Intel SSDSC2KW512G8XT. 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		Brand-specific features	
NAND flash type	TLC (Triple Level Cell)	Intel Smart Response Technology version	1.00
Security algorithms	256-bit AES	Operational conditions	
SSD form factor *	2.5"	Operating temperature (T-T)	0 - 70 °C
SSD capacity *	512 GB	Maximum operating temperature	70 °C
Interface *	Serial ATA III	Operating vibration	2.17 G
Memory type *	3D TLC	Non-operating vibration	3.13 G
NVMe *	✗	Operating shock	1500 G
Component for *	PC/Laptop	Non-operating shock	1500 G
Hardware encryption *	✓	Operating / non-operating shock	1500 G (Max) at 0.5 msec
Data transfer rate	6 Gbit/s	Weight & dimensions	
Read speed	550 MB/s	Height	7 mm
Write speed	500 MB/s	Weight	43 g
Read latency	50 µs	Logistics data	
Write latency	60 µs	Harmonized System (HS) code	84717070
End-to-End Data Protection	✓	Other features	
Enhanced Power Loss Data Protection technology	✗	Product colour	Silver
SSD temperature monitoring	✗	Drive capacity	512 GB
Temperature monitoring and logging	✗	Launch date	Q2'17
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 ¹⁵ bits read	Product brief URL	https://www.intel.com/content/www/us/en/support/articles/000005884/memory-and-storage.html
Mean time between failures (MTBF)	1600000 h	Random write (8GB span)	85000 IOPS
TBW rating	288	SSD endurance rating	288 TBW
Market segment	Mobile	SSD hardware encryption	AES 256 bit
SSD usage tag	Consumer	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
		Product family	Consumer SSD
		Product series	Intel® SSD 545s Series
		Product codename	Liberty Harbor



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