

Intel SSDPE2KX010T701 internal solid state drive 2.5" 1 TB PCI Express 3.0 TLC

Brand : Intel

Product code: SSDPE2KX010T701

Product name : SSDPE2KX010T701

SSD DC P4500 Series 1.0TB, 2.5in PCIe 3.1 x4, 3D1, TLC

[Intel SSDPE2KX010T701 internal solid state drive 2.5" 1 TB PCI Express 3.0 TLC:](#)

Enhanced Power Loss Data Protection

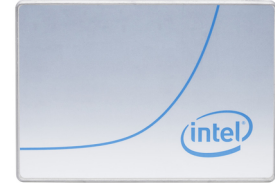
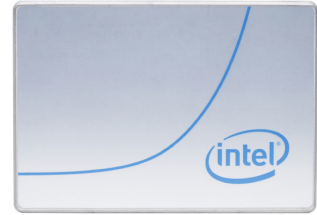
Enhanced Power Loss Data Protection prepares the SSD for unexpected system power loss by minimizing data in transition in temporary buffers, and uses on-board power-loss protection capacitance to provide enough energy for the SSD firmware to move data from the transfer buffer and other temporary buffers to the NAND, thus protecting system and user data.

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. Intel SSDPE2KX010T701. SSD capacity: 1 TB, SSD form factor: 2.5", Component for: PC/Laptop



Features		Brand-specific features	
SSD form factor *	2.5"	Intel Smart Response Technology version	0.00
SSD capacity *	1 TB	Operational conditions	
Interface *	PCI Express 3.0	Operating temperature (T-T)	0 - 35 °C
Memory type *	TLC	Maximum operating temperature	35 °C
Component for *	PC/Laptop	Operating / non-operating shock	1000 G/0.5 msec
Random read (100% span)	294000 IOPS	Logistics data	
Random write (100% span)	32000 IOPS	Harmonized System (HS) code	84717070
Read latency	80 µs	Other features	
Write latency	29 µs	Drive capacity	1 TB
PCI Express interface data lanes	x4	Launch date	Q2'17
End-to-End Data Protection	✓	Product brief URL	http://www.intel.com/content/www/us/en/solid-state-drives/ssd-dc-p4500-brief.html
Enhanced Power Loss Data Protection technology	✓	SSD endurance rating	1.38 PBW
SSD temperature monitoring	✓	SSD hardware encryption	AES 256 bit
Temperature monitoring and logging	✓	SSD power consumption (active)	Sequential Avg. 11W (Write), 9.6 W (Read)
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 ¹⁷ bits read	SSD power consumption (idle)	<5 W
Market segment	Server	SSD shock	1000 G/0.5 msec
SSD ARK ID	99030	SSD weight	131 g
Brand-specific features		Sequential reading	3200 MB/s
Intel High Endurance Technology (HET)	✗	Sequential writing speed	600 MB/s
Intel® Rapid Start Technology	✗	Status	Launched
Intel® Remote Secure Erase	✗	Last change	63903513
Intel® Smart Response Technology	✗	Intel Rapid Start Technology version	0.00
		Remote Secure Erase (RSE) technology version	0.00
		Product family	Data center SSD
		Product series	Intel® SSD DC P4500 Series
		Product codename	Cliffdale



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