

Intel SSDPE2MX450G701 internal solid state drive 2.5" 450 GB PCI Express MLC

Brand : Intel

Product code: SSDPE2MX450G701

Product name : SSDPE2MX450G701



SSD DC P3520 Series (450GB, 2.5in PCIe 3.0 x4, 3D1, MLC)

[Intel SSDPE2MX450G701 internal solid state drive 2.5" 450 GB PCI Express MLC:](#)

Speed with which the device is able to retrieve data that forms one contiguous, ordered block of data. Measured in MB/s (MegaBytes per Second)

Speed with which the SSD is able to retrieve data from arbitrary locations in the memory, across the entire span of the drive. Measured in IOPS (Input/Output Operations Per Second)

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.

Intel SSDPE2MX450G701. SSD capacity: 450 GB, SSD form factor: 2.5", Read speed: 1200 MB/s, Write speed: 600 MB/s

Features		Brand-specific features	
SSD form factor *	2.5"	Intel High Endurance Technology (HET)	✗
SSD capacity *	450 GB	Operational conditions	
Interface *	PCI Express	Operating temperature (T-T)	0 - 35 °C
Memory type *	MLC	Maximum operating temperature	35 °C
Read speed	1200 MB/s	Operating vibration	2.17 G
Write speed	600 MB/s	Non-operating vibration	3.13 G
Random read (100% span)	145000 IOPS	Operating shock	1000 G
Random write (100% span)	19000 IOPS	Non-operating shock	1000 G
Read latency	20 µs	Operating / non-operating shock	1000 G/0.5msec
Write latency	20 µs	Weight & dimensions	
PCI Express interface data lanes	x4	Weight	125 g
End-to-End Data Protection	✓	Logistics data	
Enhanced Power Loss Data Protection technology	✓	Harmonized System (HS) code	8523510000
SSD temperature monitoring	✓	Other features	
Temperature monitoring and logging	✓	Internal	✓
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 ¹⁷ bits read	Drive capacity	450 GB
Mean time between failures (MTBF)	2000000 h	Launch date	Q3'16
TBW rating	590	SSD endurance rating	590 TBW
Market segment	Server	SSD hardware encryption	AES 256 bit
SSD usage tag	Data center	SSD power consumption (active)	Avg. 8W (Write), 9W (Read)
SSD ARK ID	93188	SSD power consumption (idle)	4W
Power		SSD shock	1000 G/0.5msec
Power consumption (read)	9 W	Sequential reading	1200 MB/s
Power consumption (write)	8 W	Sequential writing speed	600 MB/s
Power consumption (idle)	4 W	Status	Launched
		Last change	63903513
		Product family	Data center SSD
		Product series	Intel® SSD DC P3520 Series



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