Intel SSDPE2MX020T401 internal solid state drive 2.5" 2 TB PCI Express 3.0 MLC NVMe

Brand : Intel

Product code: SSDPE2MX020T401

Product name : SSDPE2MX020T401

2TB DC P3500, 20nm, MLC, 2.5", NVMe
Intel SSDPE2MX020T401. SSD capacity: 2 TB, SSD form factor: 2.5", Read speed: 2700 MB/s, Write speed: 1800 MB/s

RoHS 2002/95/EC

Features	
SSD form factor *	2.5"
SSD capacity *	2 TB
Interface *	PCI Express 3.0
Memory type *	MLC
NVMe *	✓
Read speed	2700 MB/s
Write speed	1800 MB/s
Random read (4KB)	430000 IOPS
Random write (4KB)	28000 IOPS
Random read (8KB)	250000 IOPS
Random write (8KB)	14000 IOPS
Random read (100% span)	430000 IOPS
Random write (100% span)	28000 IOPS
Read latency	20 µs
Write latency	20 µs
Lithography	20 nm
PCI Express interface data lanes	x4
End-to-End Data Protection	✓
Enhanced Power Loss Data Protection technology	✓
SSD temperature monitoring	✓
Temperature monitoring and logging	✓
Uncorrectable Bit Error Rate (UBER)	< 1 per 10^17 bits read
Mean time between failures (MTBF)	2000000 h
Market segment	Server
SSD usage tag	Data center
SSD ARK ID	79633

Power	
Operating voltage	3.3 V
Power consumption (read)	11 W
Power consumption (write)	25 W
Power consumption (idle)	4 W

Brand-specific features	
Intel High Endurance Technology (HET)	✗

Operational conditions	
Operating temperature (T-T)	0 - 35 °C

Operational conditions	
Storage temperature (T-T)	-55 - 95 °C
Maximum operating temperature	35 °C
Operating vibration	2.17 G
Non-operating vibration	3.13 G
Non-operating shock	1000 G
Maximum non-operating altitude	12192 m
Operating / non-operating shock	1000 G/0.5msec
Maximum operating altitude	3048 m

Technical details	
Sustainability certificates	RoHS

Weight & dimensions	
Width	69.8 mm
Depth	100.5 mm
Height	15 mm
Weight	125 g

Logistics data	
Harmonized System (HS) code	8523510000

Other features	
Internal	✓
Processor lithography	20 nm
Power consumption (active)	25 W
Born on date	Q1'15
Drive capacity	2 TB
Launch date	Q1'15
Product brief URL	http://www.intel.com/content/dam/www/public/us/en/documents/product-briefs/intel-ssd-dc-family-for-pcie-brief.pdf
Product name	Intel SSD DC P3500 Series (2.0TB, 2.5in PCIe 3.0, 20nm, MLC)
SSD endurance rating	1095 TBW
SSD power consumption (active)	25
SSD power consumption (idle)	4W
SSD shock	1000 G/0.5msec
SSD weight	up to 125gm
Sequential reading	2700 MB/s
Sequential writing speed	1800 MB/s
Status	Discontinued
Last change	63903513
Product family	Data center SSD
Product series	Intel DC P3500
Product codename	Pleasantdale

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