

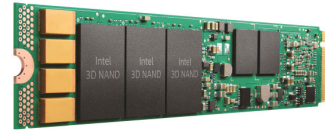
Intel DC P4511 M.2 1 TB PCI Express 3.1 TLC 3D NAND NVMe

Brand : Intel

Product family: DC

Product code:
SSDPELXX010T801

Product name : Intel® SSD DC P4511 Series (1.0TB, M.2 110mm PCIe 3.1 x4, 3D2, TLC)



Intel® SSD DC P4511 Series (1.0TB, M.2 110mm PCIe 3.1 x4, 3D2, TLC) Generic Single Pack
Intel DC P4511. SSD capacity: 1 TB, SSD form factor: M.2, Component for: Server/workstation



Features		Power	
Security algorithms	256-bit AES	Average power consumption (read)	7.6 W
SSD form factor *	M.2	Average power consumption (write)	7.6 W
SSD capacity *	1 TB	Power consumption (idle)	3.5 W
Interface *	PCI Express 3.1	Brand-specific features	
Memory type *	TLC 3D NAND	Intel High Endurance Technology (HET)	✗
NVMe *	✓	Intel® Rapid Start Technology	✗
Component for *	Server/workstation	Intel® Remote Secure Erase	✗
Hardware encryption *	✓	Intel® Smart Response Technology	✗
Random read (100% span)	295000 IOPS	Operational conditions	
Random write (100% span)	31000 IOPS	Operating temperature (T-T)	0 - 55 °C
Random latency - read (up to)	100 µs	Maximum operating temperature	55 °C
Random latency - write (up to)	50 µs	Operating vibration	2.17 G
Sequential latency - read (up to)	15 µs	Non-operating vibration	3.13 G
Sequential latency - write (up to)	20 µs	Operating / non-operating shock	1000G (0.5ms)
Read latency	85 µs	Weight & dimensions	
Write latency	40 µs	Width	110 mm
End-to-End Data Protection	✓	Height	22 mm
Enhanced Power Loss Data Protection technology	✓	Weight	14 g
SSD temperature monitoring	✓	Logistics data	
Temperature monitoring and logging	✓	Harmonized System (HS) code	84717070
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 ¹⁷ bits read	Other features	
Mean time between failures (MTBF)	2000000 h	Power consumption (active)	7.6 W
SSD ARK ID	137107	Launch date	Q2'18
Export Control Classification Number (ECCN)	5A992C	SSD endurance rating	Up to 0.98PBW
Commodity Classification Automated Tracking System (CCATS)	G162706	SSD power consumption (idle)	3.5W
		SSD shock	1000G (0.5ms)
		Sequential reading	1950 MB/s
		Sequential writing speed	1000 MB/s
		Status	Launched
		Product family	Data center SSD

Other features

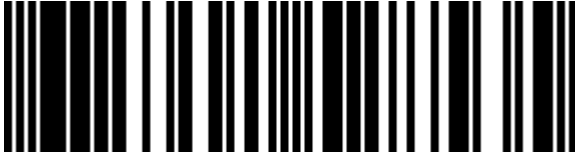
Product series	Intel® SSD DC P4511 Series
Product codename	Cliffdale Refresh



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