

Intel D7 -P5510 U.2 7.68 TB PCI Express 4.0 3D TLC NAND NVMe

Brand : Intel

Product family: D7

Product code:
SSDPF2KX076TZ01

Product name : Intel® SSD
D7-P5510 Series (7.68TB, 2.5in
PCIe 4.0 x4, 3D4, TLC)



SSDPF2KX076TZ01

Intel D7 -P5510. SSD capacity: 7.68 TB, SSD form factor: U.2, Component for: Server/workstation

Features		Features	
Security algorithms	256-bit AES	Commodity Classification	
SSD form factor *	U.2	Automated Tracking System (CCATS)	G162706L1
SSD capacity *	7.68 TB	Power	
Interface *	PCI Express 4.0	Power consumption (idle)	5 W
Memory type *	3D TLC NAND	Brand-specific features	
NVMe *	✓	Intel High Endurance Technology (HET)	✗
Component for *	Server/workstation	Intel® Rapid Start Technology	✗
Hardware encryption *	✓	Intel® Remote Secure Erase	✗
Random read (100% span)	930000 IOPS	Intel® Smart Response Technology	✗
Random write (100% span)	190000 IOPS	Operational conditions	
Random latency - read (up to)	84 µs	Operating temperature (T-T)	0 - 70 °C
Random latency - write (up to)	16 µs	Maximum operating temperature	70 °C
Sequential latency - read (up to)	10 µs	Operating vibration	2.17 G
Sequential latency - write (up to)	13 µs	Non-operating vibration	3.13 G
Read latency	84 µs	Weight & dimensions	
Write latency	16 µs	Weight	138 g
End-to-End Data Protection	✓	Logistics data	
Enhanced Power Loss Data Protection technology	✓	Harmonized System (HS) code	84717070
SSD temperature monitoring	✓	Other features	
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 ¹⁷ bits read	Internal memory type	PCIe 4.0 x4, NVMe
Mean time between failures (MTBF)	2000000 h	Launch date	Q4'20
SSD ARK ID	205382	SSD endurance rating	Up to 14.0PBW (JESD219 workload)
Export Control Classification Number (ECCN)	5A992C	SSD shock	1000G,0.5ms
		Sequential reading	7000 MB/s
		Sequential writing speed	4194 MB/s
		Status	Launched
		Processor family	Intel SSD D7



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