

Intel Optane DC P5800X 2.5" 800 GB PCI Express 4.0 Intel(R) Optane(TM) Memory Media NVMe



Brand : Intel

Product family: Optane

Product code:
SSDPF21Q800GB01

Product name : Intel®
Optane™ SSD DC P5800X Series
(800GB, 2.5in PCIe x4, 3D
XPoint™)

800GB, 2.5in PCIe x4, 3D XPoint™

Intel Optane DC P5800X. SSD capacity: 800 GB, SSD form factor: 2.5", Component for:
Server/workstation

Features		Power	
Security algorithms	256-bit AES	Power consumption (idle)	4.2 W
SSD form factor *	2.5"	Brand-specific features	
SSD capacity *	800 GB	Intel® Optane™	✓
Interface *	PCI Express 4.0	Intel High Endurance Technology (HET)	✓
Memory type *	Intel(R) Optane(TM) Memory Media	Operational conditions	
NVMe *	✓	Operating temperature (T-T)	0 - 70 °C
Component for *	Server/workstation	Maximum operating temperature	70 °C
Hardware encryption *	✓	Operating vibration	2.17 G
Random read (100% span)	1500000 IOPS	Non-operating vibration	3.13 G
Random write (100% span)	1350000 IOPS	Weight & dimensions	
Read latency	5 µs	Weight	140 g
Write latency	5 µs	Logistics data	
End-to-End Data Protection	✓	Harmonized System (HS) code	84717070
Enhanced Power Loss Data Protection technology	✓	Other features	
SSD temperature monitoring	✓	Target market	Artificial Intelligence, Cloud Computing, High Performance Computing
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	Power consumption (active)	18 W
Export Control Classification Number (ECCN)	5A992C	Launch date	Q4'20
Commodity Classification Automated Tracking System (CCATS)	G162706	SSD endurance rating	100 DWPD
		SSD shock	1000G,0.5ms
		Sequential reading	7200 MB/s
		Sequential writing speed	6100 MB/s
		Status	Launched
		Processor family	Intel Optane SSD DC P5800X



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