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Intel® Optane™ SSD DC P4800X Series

750GB, 2.5in PCIe x4, 3D XPoint™

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Product Collection	Intel® Optane™ SSD DC P4800X Series
Code Name	Products formerly Cold Stream
Capacity	750 GB
Status	Launched
Launch Date ?	Q4'17

Performance

Sequential Read (up to) ?	2500 MB/s
Sequential Write (up to) ?	2200 MB/s
Random Read (100% Span) ?	550000 IOPS
Random Write (100% Span) ?	550000 IOPS
Latency - Read ?	10 µs
Latency - Write ?	10 µs
Power - Active ?	18 W
Power - Idle ?	6 W

Reliability

Vibration - Operating ?	2.17 GRMS
Vibration - Non-Operating ?	3.13 GRMS
Shock (Operating and Non-Operating) ?	1000 G/0.5 msec
Operating Temperature Range	0°C to 70°C
Endurance Rating (Lifetime Writes) ?	41.0 PBW (30DWPD), 82.0 PBW (60DWPD)
Mean Time Between Failures (MTBF) ?	2 million hours
Uncorrectable Bit Error Rate (UBER) ?	1 sector per 10^17 bits read
Warranty Period	5 yrs

Supplemental Information

Product Brief	View now

Package Specifications

Form Factor ?	U.2 15mm
Interface ?	PCIe NVMe 3.0 x4

Advanced Technologies

Enhanced Power Loss Data Protection ?	Yes
Hardware Encryption ?	AES 256 bit
High Endurance Technology (HET) ?	Yes
Temperature Monitoring and Logging ?	Yes
End-to-End Data Protection ?	Yes
Intel® Smart Response Technology ?	No
Intel® Rapid Start Technology ?	No
Intel® Remote Secure Erase ?	No

More support options for Intel® Optane™ SSD DC P4800X Series (750GB, 2.5in PCIe x4, 3D XPoint™)

Product Support

Downloads and Software

Support Community

Warranty and Replacement

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Refer to Datasheet for formal definitions of product properties and features.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Intel® Rapid Start Technology requires a select Intel® processor, Intel® software and BIOS update, and a Solid-State Drive (SSD) or hybrid drive. Depending on system configuration, your results may vary. Contact your system manufacturer for more information.

Intel® Smart Response Technology requires a select Intel® Core™ processor, an enabled chipset, Intel® Rapid Storage Technology software, and a properly configured hybrid drive (HDD + small SSD). Depending on system configuration, your results may vary. Contact your system manufacturer for more information.

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