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Intel® SSD DC P4610 Series

3.2TB, 2.5in PCIe 3.1 x4, 3D2, TLC

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Specifications

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Essentials

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Product Collection	Intel® SSD DC P4610 Series
Code Name	Products formerly Cliffdale Refresh
Capacity	3.2 TB
Status	Launched
Launch Date ?	Q2'18
Lithography Type	64-Layer 3D TLC NAND
Use Conditions ?	Server/Enterprise
Off Roadmap	No

Performance

Sequential Read (up to) ?	3200 MB/s
Sequential Write (up to) ?	3050 MB/s
Random Read (100% Span) ?	638000 IOPS
Random Write (100% Span) ?	222000 IOPS
Latency - Read ?	77 µs
Latency - Write ?	18 µs
Power - Active ?	14W
Power - Idle ?	5W

Reliability

Vibration - Operating ?	2.17GRMS
Vibration - Non-Operating ?	3.13GRMS
Shock (Operating and Non-Operating) ?	1000G
Operating Temperature Range	0°C to 55°C
Operating Temperature (Maximum)	55 °C
Operating Temperature (Minimum)	0 °C
Endurance Rating (Lifetime Writes) ?	21.85PBW
Mean Time Between Failures (MTBF) ?	2 million hours
Uncorrectable Bit Error Rate (UBER) ?	1 sector per 10^-17 bits read
Warranty Period	5 yrs

Package Specifications

Weight	139g
Form Factor ?	U.2 15mm
Interface ?	PCIe NVMe 3.1 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

More support options for Intel® SSD DC P4610 Series (3.2TB, 2.5in PCIe 3.1 x4, 3D2, TLC)

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