



# Intel® SSD DC P4610 Series

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

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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 <a href="#">?</a>	Q2'18
Lithography Type	64-Layer 3D TLC NAND
Use Conditions <a href="#">?</a>	Server/Enterprise
Off Roadmap	No

## Performance

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

## Reliability

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

## Package Specifications

Weight	139g
Form Factor <a href="#">?</a>	U.2 15mm
Interface <a href="#">?</a>	PCIe NVMe 3.1 x4

## Advanced Technologies

Enhanced Power Loss Data Protection <a href="#">?</a>	Yes
Hardware Encryption <a href="#">?</a>	AES 256 bit
High Endurance Technology (HET) <a href="#">?</a>	Yes
Temperature Monitoring and Logging <a href="#">?</a>	Yes
End-to-End Data Protection <a href="#">?</a>	Yes

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

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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.



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