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Intel® SSD 600p Series

512GB, M.2 80mm PCIe 3.0 x4, 3D1, TLC

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Specifications

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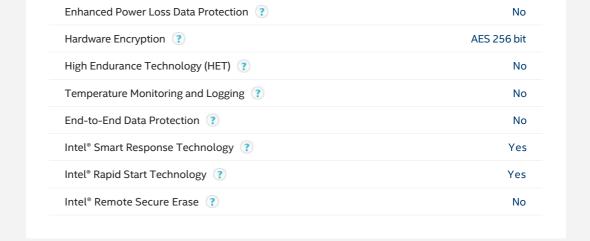- Supplemental Information
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Ordering and Compliance

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Essentials

⬇ Export specifications

Product Collection	Intel® SSD 600p Series
Code Name	Products formerly Pleasant Star
Capacity	512 GB
Status	Launched
Launch Date ?	Q3'16
Recommended Customer Price ?	N/A

Performance

Sequential Read (up to) ?	1775 MB/s
Sequential Write (up to) ?	560 MB/s
Random Read (8GB Span) (up to) ?	128500 IOPS
Random Write (8GB Span) (up to) ?	128000 IOPS
Power - Active ?	100mW (Typical)
Power - Idle ?	40mW (Typical)

Reliability

Vibration - Operating ?	2.17 GRMS (5-700Hz) Max
Vibration - Non-Operating ?	3.13 GRMS (5-800Hz) Max
Operating Temperature Range	0°C to 70°C
Endurance Rating (Lifetime Writes) ?	288 TBW
Mean Time Between Failures (MTBF) ?	1.6 million hours
Uncorrectable Bit Error Rate (UBER) ?	<1 sector per 10^15 bits read
Warranty Period	5 yrs

Supplemental Information

Datasheet	View now

Package Specifications

Form Factor ?	M.2 22 x 80mm
Interface ?	PCIe NVMe 3.0 x4

Advanced Technologies

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

More support options for Intel® SSD 600p Series (512GB, M.2 80mm PCIe 3.0 x4, 3D1, TLC)

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.

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

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