Intel® SSD 520 Series (180GB, 2.5in SATA 6Gb/s, 25nm, MLC)

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Specifications

Essentials

Capacity	180 GB
Status	End of Life
Launch Date	Q1'12
Lithography Type	25 nm
Recommended Customer Price	N/A

Performance

Sequential Read (up to)	550 MB/s
Sequential Write (up to)	520 MB/s
Random Read (8GB Span) (up to)	50000 IOPS
Random Write (8GB Span) (up to)	60000 IOPS
Latency - Read	80 µs
Latency - Write	85 µs
Power - Active	850 mW (MobileMark 2007 Workload)
Power - Idle	600 mW (DIPM)

Reliability

Vibration - Operating	2.17 G_{RMS} (5-700 Hz)
Vibration - Non-Operating	3.13 G_{RMS} (5-800 Hz)
Shock (Operating and Non-Operating)	1,500 G/.5 msec
Operating Temperature Range	0°C to 70°C
Mean Time Between Failures (MTBF)	1,200,000 Hours
Uncorrectable Bit Error Rate (UBER)	1 sector per 10^{16}
Warranty Period	5 yrs

Package Specifications

Components	Intel NAND Flash Memory Multi-Level Cell (MLC) Technology
Weight	Up to 78 grams
Form Factor	2.5" 7mm
Interface	SATA 3.0 6Gb/S

Advanced Technologies

Enhanced Power Loss Data Protection	No
Hardware Encryption	AES 128 bit

Related Products

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PCN/MDDS Information

922663: PCN
923333: PCN | MDDS

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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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