

Intel® SSD 320 Series
(600GB, 2.5in SATA 3Gb/s, 25nm, MLC)

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Specifications

Essentials	
Capacity	600 GB
Status	End of Life
Launch Date	Q1'11
Datasheet	Link
Lithography Type	25 nm
Recommended Customer Price	N/A

Performance	
Sequential Read (up to)	270 MB/s
Sequential Write (up to)	220 MB/s
Random Read (8GB Span) (up to)	39500 IOPS
Random Read (100% Span)	39500 IOPS
Random Write (8GB Span) (up to)	23000 IOPS
Random Write (100% Span)	23000 IOPS
Latency - Read	75 μs
Latency - Write	90 μs
Power - Active	150 mw (MobileMark 2007 Workload), 4.0 W (64K Sequential Write)
Power - Idle	100 mw (DIPM), .7 W (Non-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

Package Specifications	
Components	Intel NAND Flash Memory Multi-Level Cell (MLC) Technology
Weight	up to 88 ± 2 grams
Form Factor	2.5" 7mm
Interface	SATA 3.0 3Gb/S

Advanced Technologies	
Enhanced Power Loss Data Protection	Yes

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

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