

Intel® SSD DC S3510 Series
(80GB, 2.5in SATA 6Gb/s, 16nm, MLC)

Specifications ^

Essentials

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Reliability

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Specifications	
- Essentials	
Capacity	80 GB
Status	Launched
Launch Date	Q2'15
Lithography Type	16 nm
Recommended Customer Price	N/A
- Performance	
Sequential Read (up to)	375 MB/s
Sequential Write (up to)	110 MB/s
Random Read (100% Span)	68000 IOPS
Random Write (100% Span)	8400 IOPS
Latency - Read	55 µs
Latency - Write	66 µs
Power - Active	1.91 W
Power - Idle	600 mW
- Reliability	
Vibration - Operating	1000 G/0.5 msec
Vibration - Non-Operating	1000G/0.5 msec
Shock (Operating and Non-Operating)	1000G/0.5 msec
Operating Temperature Range	0°C to 70°C
Endurance Rating (Lifetime Writes)	45 TBW
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	88 grams +/- 2 grams
Form Factor	2.5" 7mm
Interface	SATA 3.0 6Gb/s
- Advanced Technologies	
Enhanced Power Loss Data Protection	Yes
Hardware Encryption	AES 256 bit
High Endurance Technology (HET)	No
Temperature Monitoring and Logging	Yes
End-to-End Data Protection	Yes
Intel® Smart Response Technology	No
Intel® Rapid Start Technology	No

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PCN/MDDS Information

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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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