



Intel® SSD 530 Series

80GB, PCIe Module mSATA 6Gb/s, 20nm, MLC

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Specifications

Essentials



- Performance
- Reliability
- Supplemental Information
- Package Specifications
- Advanced Technologies

Ordering and Compliance


Downloads and Software

Essentials






 Export specifications

Product Collection	Intel® SSD 530 Series
Code Name	Products formerly Dale Crest
Capacity	80 GB
Status	Launched
Launch Date 	Q3'13
Lithography Type	20 nm
Recommended Customer Price 	N/A

Performance

Sequential Read (up to) 	540 MB/s
Sequential Write (up to) 	480 MB/s
Random Read (8GB Span) (up to) 	41000 IOPS
Random Write (8GB Span) (up to) 	80000 IOPS
Latency - Read 	80 µs
Latency - Write 	85 µs
Power - Active 	140 mW
Power - Idle 	55 mW



Reliability

Vibration - Operating 	2.17 GRMS (5-700 Hz) Max
Vibration - Non-Operating 	3.13 GRMS (5-700 Hz) Max
Shock (Operating and Non-Operating) 	1000 G (Max) at 0.5 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 bits read
Warranty Period	5 yrs

Supplemental Information

Product Brief	View now
Additional Information URL	View now

Package Specifications

Components	Intel NAND Flash Memory Multi-Level Cell (MLC) Technology
Weight	< 10 grams
Form Factor 	mSATA
Interface 	SATA 3.0 6Gb/s

Advanced Technologies

Hardware Encryption 	AES 256 bit
End-to-End Data Protection 	Yes
Intel® Smart Response Technology 	Yes
Intel® Rapid Start Technology 	Yes

More support options for Intel® SSD 530 Series (80GB, PCIe Module mSATA 6Gb/s, 20nm, MLC)



Product Support



Downloads and Software



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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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