



# Intel® SSD 520 Series

## (180GB, 2.5in SATA 6Gb/s, 25nm, MLC)

Specifications

Essentials

Performance

Reliability

Package Specifications

Advanced Technologies

Compatible Products

Ordering / sSpecs / Steppings

### 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 <sub>RMS</sub> (5-700 Hz)
Vibration - Non-Operating	3.13 G <sub>RMS</sub> (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 <sup>16</sup>
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

Compare +

### Related Products

- Legacy Consumer SSDs
- Intel® SSD 520 Series
- Products formerly Cherryville

### Quick Links

- Export Full Specifications >
- Support Overview >
- Search Distributors >

### PCN/MDDS Information

922663: [PCN](#)  
923333: [PCN](#) | [MDDS](#)

All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice. The information herein is provided "as-is" and Intel does not make any representations or warranties whatsoever regarding accuracy of the information, nor on the product features, availability, functionality, or compatibility of the products listed. Please contact system vendor for more information on specific products or systems.


"Intel classifications" consist of Export Control Classification Numbers (ECCN) and Harmonized Tariff Schedule (HTS) numbers. Any use made of Intel classifications are without recourse to Intel and shall not be construed as a representation or warranty regarding the proper ECCN or HTS. Your company may be the exporter of record, and as such, your company is responsible for determining the correct classification of any item at the time of export.

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.

"Conflict free" and "conflict-free" means "DRC conflict free", which is defined by the U.S. Securities and Exchange Commission rules to mean products that do not contain conflict minerals (tin, tantalum, tungsten and/or gold) that directly or indirectly finance or benefit armed groups in the Democratic Republic of the Congo (DRC) or adjoining countries. Intel also uses the term "conflict-free" in a broader sense to refer to suppliers, supply chains, smelters and refiners whose sources of conflict minerals do not finance conflict in the DRC or adjoining countries. Intel processors manufactured before January 1, 2013 are not confirmed conflict free. The conflict free designation refers only to product manufactured after that date. For Intel Boxed Processors, the conflict free designation refers to the processor only, not to any additional included accessories, such as heatsinks/coolers.

The Recommended Customer -unit purchase quantities, and are subject to change without notice. Taxes and shipping, etc. not included. Prices may vary for other package types and shipment quantities, and special promotional arrangements may apply. If sold in bulk, price represents individual unit. Listing of these RCP does not constitute a formal pricing offer from Intel. Please work with your appropriate Intel representative to obtain a formal price quotation.

 [Send us your feedback!](#)



[Company Information](#) [Our Commitment](#) [Communities](#) [Investor Relations](#) [Contact Us](#)

[Newsroom](#) [Jobs](#)



[© Intel Corporation](#) | [Terms of Use](#) | [\\*Trademarks](#) | [Privacy](#) | [Cookies](#) | [Supply Chain Transparency](#) | [Site Map](#)