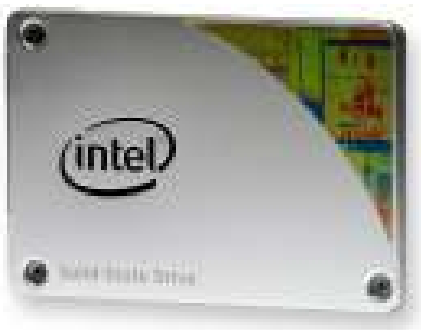
PRODUCT BRIEF

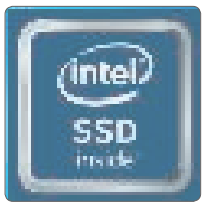
Intel® Solid State Drive 535 Series

Level Up

The Next Level of Consumer Computing

Enjoy the snappy performance and ruggedness of the Intel® Solid State Drive 535 Series.





Intel Evolving Storage Technology

Intel® Solid State Drives (Intel® SSDs) continue to evolve with the introduction of the Intel® SSD 535 Series.

Designed for a wide range of consumer and embedded platforms, including Ultrabook™, traditional desktops and laptops, mini computers, and digital signage, as well as the latest tablets and small form factor mobile systems, Intel SSD 535 Series combines high quality, reliable performance and low power consumption for space conscious computing.

Small Form Factors

The Intel SSD 535 Series M.2 form factor delivers outstanding performance for thin and light computing devices. Intel's SSD M.2 form factor requires far less space than a traditional 2.5-inch form factor storage device. Intel SSD 535 Series is also available in traditional 2.5-inch form factors, providing a variety of solid state technology solutions.

The Intel SSD 535 Series product line is available in capacities ranging from 56GB to 480GB.

Latest NAND Technology

Intel SSD 535 Series uses the latest 16nm NAND technology.

You will also benefit from the high quality and reliability you've come to expect from Intel. Along with power and space savings, reliability, and peace of mind, the Intel SSD 535 Series comes with Intel's outstanding customer support and 5-year limited warranty.

A New Generation of Power Efficient Performance

With the Intel SSD 535 Series, your computer will effortlessly manage demanding consumer client applications and easily handle intense multi-tasking.

The Intel SSD 535 Series accelerates platform performance with sequential reads of up to 540 megabytes and sequential writes of up to 490 megabytes per second (MB/s) and random read and write input/output operations (IOPS) of up to 48K and 80K respectively.

In addition to strong performance gains, Intel SSD 535 Series provides extended battery life through low power modes. Idle power consumption of Intel SSD 535 Series is reduced by >90% over a typical hard disc drive, thereby reducing power consumption from watts to milliwatts. When the Intel SSD 535 Series is coupled with a 4th or 5th generation Intel® Core-based platform, advanced power mode settings reduce power dissipation another order of magnitude – from milliwatts to microwatts.

Product Spotlight

- High performance for demanding applications
- High quality and reliability
- Low power consumption
- Space-conscious form factors
- 16nm NAND technology
- Wide range of capacities

TECHNICAL SPECIFICATIONS[1]

Model Name	Intel Solid State Drive 535 Series				
Capacity (GB)[2]	**M.2** - 120, 180, 240, 360 **2.5-inch** - 56, 120, 180, 240, 360, 480				
NAND Flash Memory	16nm NAND Flash Memory Multi-Level Cell (MLC)				
Bandwidth[2,3,4]	**Form Factor** Capacity Point	Sequential Read (up to)	Sequential Write (up to)	Random Read (up to)	Random Write (up to)
	M.2 120GB, 180GB, 240GB 360GB	540 MB/s	490 MB/s	48K IOPs	80K IOPs
	2.5-inch 56GB, 120GB, 180GB, 240GB, 360GB, 480GB	540 MB/s	490 MB/s	48K IOPs	80K IOPs
Interface	SATA 6Gb/s, compatible with SATA 3Gb/s				
Form Factor, Height and Weight	**Form Factor**		**Height/Weight**		
	M.2 (80mm)		Up to 3.58mm / up to 10 grams		
	2.5-inch		Up to 7mm / up to 78 grams		
Life Expectancy[5]	1.2 million hours Mean Time Between Failures (MTBF)				
Power Consumption M.2	Active: 140 mW Typical[6]		Idle: 55 mW Typical[7]		DevSleep: 200µW
Power Consumption 2.5-inch	Active: 165 mW Typical[6]		Idle: 55 mW Typical[7]		DevSleep: 5mW
Operating Temperature	0°C to 70°C				
RoHS Compliance	Meets the requirements of European Union (EU) RoHS Compliance Directives				
Software Tools	Intel® Solid State Drive Toolbox with Intel® SSD Optimizer at **www.intel.com/go/ssdtoolbox** Intel® Data Migration Software at **www.intel.com/go/ssdinstallation**				

Solid State Drive Computing Starts with Intel Inside®.
For more information, visit **www.intel.com/ssd**

[1] Based on the Intel SSD 535 Series Product Specifications: http://www.intel.com/content/www/us/en/solid-state-drives/ssd-535-spec.html and http://www.intel.com/content/www/us/en/solid-state-drives/ssd-535-m2-spec.html

[2] All capacities and form factors will not be available at launch.

[3] Performance varies by capacity and is measured by Intel using IOMeter* with Queue Depth 32.

[4] Performance measured by Intel using IOMeter 1.1.0 with Queue Depth 32. Measurements are performed on 8GB of logical block address (LBA) range on a full SSD.

[5] All documented endurance test results are obtained in compliance with JESD218 Standards. See www.jedec.org for detailed definitions of JESD218 Standards.

[6] Active power measured during execution of MobileMark* 2007 Workload with SATA Link Power Management (LPM) enabled.

[7] Idle power defined as SSD at idle with SATA Link Power Management (LPM) enabled.

Tests document performance of components on a particular test, in specific systems. Differences in hardware, software, or configuration will affect actual performance. Consult other sources of information to evaluate performance as you consider your purchase.

IOMeter* Test and System Configurations: Intel® Core™ i5-2400S (6MB L3 Cache, 2.5GHz), Intel Desktop Board DH67CF, Intel HD Graphics driver 9.17.10.2875, BIOS: BLH6710H.84A.0160.2012.1204.1156, Chipset: Intel INF 9.2.0.1016, Memory: 4GB (2X2GB) Kingston DDR3-1333, Intel RST driver 12.9, Microsoft Windows 7 Enterprise 64-bit with SP1.

For more complete information about performance and benchmark results, visit http://www.intel.com/performance

The products described in this document may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request. Contact your local Intel sales office or your distributor to obtain the latest specifications and before placing your product order. Copies of documents which have an order number and are referenced in this document, or other Intel literature, may be obtained by calling 1-800-548-4725, or by visiting Intel's Web site at www.intel.com.

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