



Look Inside.™

Intel® Solid-State Drive 535 Series Non-Volatile Memory Storage Solutions

PRODUCT BRIEF

Level Up.

The Next Level of Consumer Computing

Utilizing its small form factor, high performance, and low idle power, the Intel® Solid-State Drive 535 Series is the next evolution of Intel® Solid-State Drives.



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 Solid-State Drive 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 120GB 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

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

Intel® Solid-State Drive 535 Series

Technical Specifications¹

Model Name	Intel Solid-State Drive 535 Series				
Capacity (GB) ²	M.2 – 120, 180, 240, 360 2.5-inch – 120, 180, 240, 360, 480				
NAND Flash Memory	16nm NAND Flash Memory Multi-Level Cell (MLC)				
Bandwidth ^{2, 3, 4}	Form Factor	Sequential Read (up to)	Sequential Write (up to)	Random Read (up to)	Random Write (up to)
	Capacity Point				
	M.2 120GB, 180GB, 240GB, 360GB	540 MB/s	490 MB/s	45K IOPs	80K IOPs
2.5-inch 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) 2.5-inch	Up to 3.58mm / up to 10 grams 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				

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>

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