

## PRODUCT BRIEF

### Intel® Solid-State Drive 525 Series

### Non-Volatile Memory Storage Solutions

# Small, Fast, Efficient

Small form factor, big performance, low power:

*Stay ahead of the competition when you move up to 6.0 gigabits per second (Gb/s) performance*

## Intel Evolving Storage Technology

Intel® Solid-State Drives (Intel® SSDs) continue to evolve with the Intel® SSD 500 Family. Available in a wide range of capacities, the Intel® Solid-State Drive 525 Series offers great performance and low power consumption in a package one eighth the size of a 2.5-inch hard drive.

## New Level of Performance for Small Form Factor Products

The Intel® SSD 525 Series accelerates PC performance where it matters most. With random read performance up to 50,000 input/output operations per second (IOPS)<sup>1</sup> and sequential read performance of up to 550 megabytes per second (MB/s)<sup>2</sup>, your PC will blaze through the most demanding applications and will handle intense multi-tasking needs. Couple that read performance with random writes up to 80,000 IOPS<sup>3</sup> and sequential writes of 520 MB/s<sup>2</sup> to unleash your applications. With the Intel® SSD 525 Series, Intel continues to deliver solutions designed to satisfy the most demanding usage models in notebooks, embedded applications, and workstation upgrades. Beyond notebooks there is potential for the Intel® SSD 525 Series to bring enhanced performance to automotive, signage, embedded video, and retail, solutions.

## Superior Data Protection Features

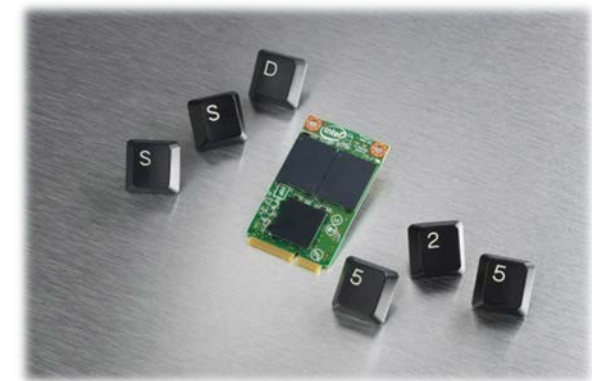
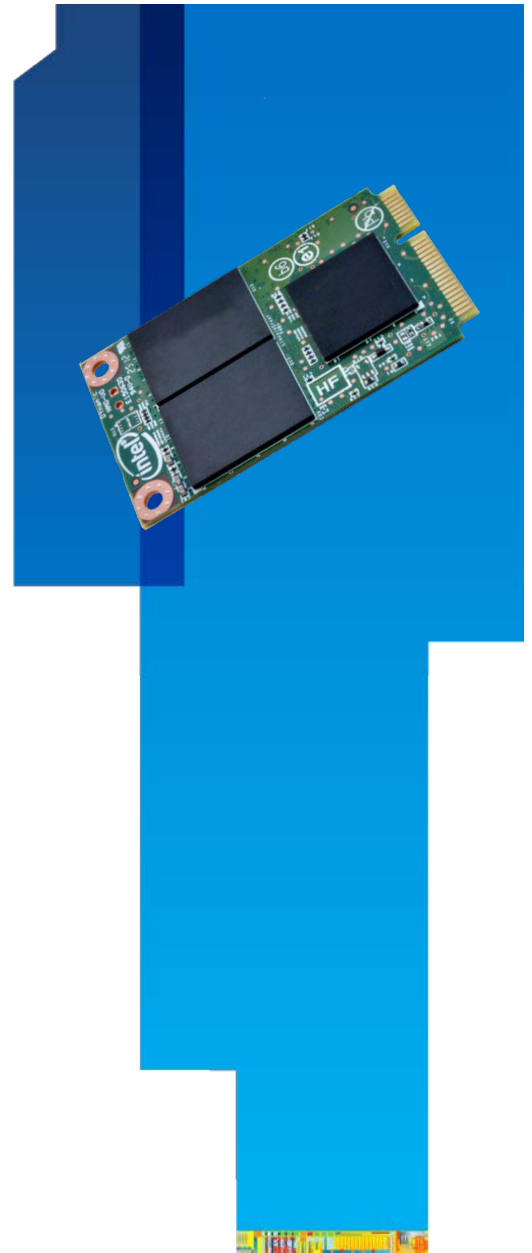
The new Intel® SSD 525 Series comes with Advanced Encryption Standard (AES) 128-bit encryption capabilities. In the event of theft or loss of your computer, your data is protected by an advanced encryption technology.

## Proven Reliability with Lower Operating Costs

With no moving parts, the Intel® SSD 525 Series reduces your risk of data loss due to shock, vibration, or jarring, all while consuming less power than a traditional hard drive—reducing recurring costs and increasing portability. Use the Intel® SSD 525 Series in notebooks, Ultrabooks™, All-In-One (AIO) Desktops, and embedded designs, knowing that your data is benefitting from advanced security features and world-class performance.

## World-Class Reliability - Better by design

Using industry leading, compute-quality Intel® 25nm NAND Flash Memory manufacturing processes the Intel® SSD 525 Series continues to offer even better performance, with increased features, that drastically outperforms traditional hard disk drive drives by an even greater margin.



## Intel® Solid-State Drive 525 Series

Technical Specifications <sup>1</sup>		
Model Name	Intel® Solid-State Drive 525 Series	
Capacity	30GB, 60GB (No longer available in 90GB, 120GB, 180GB, 240GB)	
NAND Flash Memory	25nm Intel® NAND Flash Memory Multi-Level Cell (MLC)	
Bandwidth <sup>2</sup>	Sustained Sequential Reads up to: 550 MB/s	Sustained Sequential Writes up to: 520 MB/s
Random I/O Operations per Second (4KB IOPS) <sup>3</sup>	Reads up to: 50,000 IOPS	Writes up to: 80,000 IOPS
Interface	SATA 6Gb/s, compatible with SATA 3Gb/s	
Form Factor, Height and Weight	<b>Form Factor</b>	<b>Height/Weight</b>
	MSATA	3.7mm/up to 10 grams
Life Expectancy	1.2 million hours Mean Time Between Failures (MTBF)	
Power Consumption	Active: 350 mW Typical <sup>4</sup>	Idle: 275 mW Typical <sup>5</sup>
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 <a href="http://www.intel.com/go/ssdtoolbox">www.intel.com/go/ssdtoolbox</a> Intel® Data Migration Software at <a href="http://www.intel.com/go/ssdinstallation">www.intel.com/go/ssdinstallation</a>	

<sup>1</sup> Based on the Intel® Solid-State Drive 525 Series Product Specification.

<sup>2</sup> Performance varies by capacity and is measured using Iometer\* with Queue Depth 32.

<sup>3</sup> Performance measured using Iometer with Queue Depth 32. Measurements are performed on 8GB of logical block address (LBA) range on a full SSD.

<sup>4</sup> Active power measured during execution of MobileMark\* 2007 Workload with SATA Link Power Management (LPM) enabled.

<sup>5</sup> Idle power defined as SSD at idle with SATA Link Power Management (LPM) enabled.

Solid-State Computing Starts with Intel Inside® For more information, visit [www.intel.com/ssd](http://www.intel.com/ssd)

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