

PRODUCT BRIEF

Intel® Solid State Drive 545s



Reliable Storage You Can Trust

Excellent value and performance make the Intel® SSD 545s the right choice for new PCs or hard disk drive replacements.



Get reliable storage you can trust with the new Intel® SSD 545s, delivering uncompromising value and performance. With performance noticeably faster than a hard disk drive (HDD), you'll get quicker boot and faster application load times. The 512 GB, 2.5-inch form factor easily plugs into your new or existing computing system.

Boost PC Performance

Replace your HDD with an Intel SSD 545s and accelerate your computer performance immediately. With faster performance than an HDD, you'll see quicker boot-ups, more responsive applications, and quicker file transfers for less waiting and more doing.

Compared to a typical HDD, the SSD 545s minimizes the drain on your battery to reduce idle power consumption. When coupled with an Intel® Core™-based platform, the SSD 545s delivers further improvements in power consumption through the advanced power mode settings.

Reliable Quality

Intel is a leader in quality and reliability. Every Intel® SSD is subject to rigorous testing standards above and beyond the standard quality requirements. The SSD 545s supports AES 256-bit self-encryption to protect your data. Plus, Intel SSDs are backed by a 5-year limited warranty.

Easy Upgrade or Install

The standard 2.5-inch form factor fits easily into most PCs. With our Intel® Data Migration Software, copying data from your old drive to a new SSD is simple.

Industry Leading Innovation

The SSD 545s features 64-layer Intel® 3D NAND technology, enabling higher capacities. The drive is a cost-effective and reliable replacement for traditional HDDs.

FEATURES AT A GLANCE ¹	
Model	Intel® SSD 545s
Capacity	512 GB
Form Factor	2.5-inch
Performance ²	128k Sequential Read/Write up to 550/500MB/s
	4k Random Read/Write ³ up to 75/85K IOPS
Interface	SATA 6Gb/s, compatible with SATA 3Gb/s
Non-Volatile Memory Media	Intel® 3D NAND technology, 64-layer, TLC
Power Consumption	Active Average 4.5W Idle <50mW
Life Expectancy	1.6 million hours Mean Time Between Failures (MTBF) ⁴
Warranty	5-year warranty



For more information, visit intel.com/ssd

1. Based on the Intel® SSD 545s Product Specifications. Contact your local Intel sales office or your distributor to obtain the latest product specification.
2. Performance varies by capacity and is measured by Intel using IOMeter* with Queue Depth 32. Test and System Configurations: CPU: Intel® Core™ i7-5960X @ 3.0GHz; Graphics: Mother Board: ASRock X99 Fatality; NVIDIA Geforce210; Memory: 16 GB 2133MHz Corsair Vengeance LPX ; RST: 14.8.12.1059; OS: Windows* 10 Enterprise 64bit; INF: Intel 9 series
3. Random 4kb writes are FOB SSD measurements using IOMeter.
4. All documented endurance test results are obtained in compliance with JESD218 Standards. See www.jedec.org for detailed definitions of JESD218 Standards.

Cost reduction scenarios described are intended as examples of how a given Intel-based product, in the specified circumstances and configurations, may affect future costs and provide cost savings. Circumstances will vary. Intel does not guarantee any costs or cost reduction.

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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

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.

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