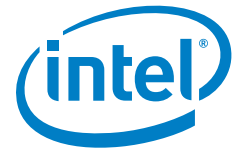


# PRODUCT BRIEF

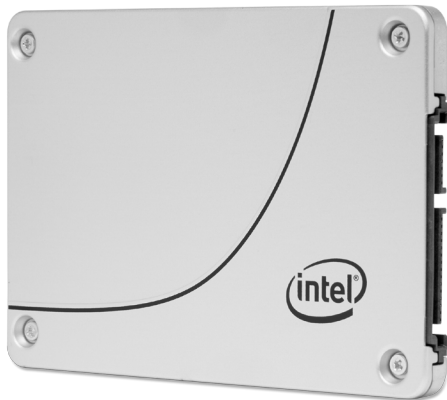
Intel® Solid State Drive E 5410s Series



## Built-in Reliability

### Built-in Reliability Your Data Deserves

Trust the Intel® SSD E 5410s to reliably and consistently optimize the value of your data.



#### Superior Choice

Experience the exceptional performance of an Intel® Solid State Drive E 5410s Series. Available in 80GB and 120GB, the Intel SSD E 5410s Series offers excellent durability, lasting integrity, security, and performance features across a variety of applications.

#### Consistent Performance

Lasting Integrity and consistency means more value for you and your customers.

Cost of service on an embedded drive is often hundreds of dollars per call. While other drives' performance may degrade over time, the E 5410s Series offers predictable performance right out of the box and throughout the entire life of the drive. Intel closely evaluates drive fill performance to ensure it is at or near the same level when full as when empty, which helps your business remain competitive without frequent drive replacement.

#### Insurance Against the Unexpected

Power Loss Imminent (PLI) technology significantly reduces the possibility of losing data during a power loss event.

Data retention is critical for many embedded and IoT applications. Acts of nature, careless mistakes, or even inadvertent hot removal of the SSD pose a potential power loss threat. PLI continuously prepares for unexpected power loss, protecting your data to help ensure it will be reliably read or written, even during moments of power loss, for complete confidence.

#### Proven End-to-End Data Protection

With a demonstrated uncorrectable bit error rate (UBER) and protection against silent data corruption, the 5410s Series helps give your data the robust protection it deserves.

#### Built-in Hardware-based Security

The E 5410s Series offers built-in security through AES 256-bit self-encryption to help protect your data.

#### Benefit from Intel Expertise Across the Entire Technology Spectrum

The E 5410s Series is designed to work with the entire Intel platform: from CPU, to chipset, to network interface, to firmware and drivers. You'll benefit from engineering across all ingredients, not just the SSDs, empowering you to focus on designing the best possible solution for your customers.

#### Best for IoT

Your best IoT solutions are built with Intel technology.

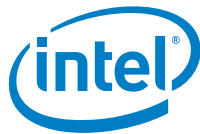
Data is vital when it comes to extracting the value of IoT solutions. The E 5410s Series reliably captures, stores, and manages data to accelerate decision-making.

#### Product Spotlight

- Reputable Intel quality and reliability
- Consistent performance
- Power loss protection w/ PLI
- End-to-end data protection
- AES 256-bit self-encryption
- Extended supply life
- Backed by Intel's five year warranty

TECHNICAL SPECIFICATIONS<sup>1</sup>

Model Name	Intel Solid State Drive E 5410s Series				
Capacity (GB)	2.5-inch - 80, 120				
NAND Flash Memory	16nm NAND Flash Memory Multi-Level Cell (MLC) with Standard Endurance Technology (SET)				
Bandwidth	<b>Form Factor</b>	Sequential	Sequential	Random	Random
	Capacity Point	Read (up to) <sup>2</sup>	Write (up to) <sup>2</sup>	Read (up to) <sup>3</sup>	Write (up to) <sup>3</sup>
	2.5-inch 80GB, 120GB	475MB/s	135 MB/s	68K IOPs	8.4K IOPs
Interface	SATA 6Gb/s, compatible with SATA 3Gb/s				
Form Factor, Height and Weight	<b>Form Factor</b>	<b>Height/Weight</b>			
	2.5-inch	Up to 7mm / up to 65 grams			
Life Expectancy <sup>4</sup>	2 million hours Mean Time Between Failures (MTBF)				
Power Consumption 2.5-inch	Active: 2.2W Typical <sup>5</sup>		Idle: 600 mW Typical <sup>6</sup>		
Operating Temperature	0°C to 70°C				
RoHS Compliance	Meets the requirements of European Union (EU) RoHS Compliance Directives				
Product Health Monitoring	Self-Monitoring, Analysis and Reporting Technology (S.M.A.R.T.) commands				
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>				



For more information, visit [www.intel.com/ssd](http://www.intel.com/ssd)

<sup>1</sup> Based on the Intel SSD E 5410s Series Product Specifications: <http://www.intel.com/content/www/us/en/embedded/products/solid-state-drives/e5410s-product-spec.html>

<sup>2</sup> Performance varies by capacity and is measured by Intel using IOMeter\* with 128KB (131,072 bytes) of transfer size with Queue Depth 32.

<sup>3</sup> Performance measured using IOMeter\* with Queue Depth 32. Measurements are performed on a full Logical Block Address (LBA) span of the drive.

<sup>4</sup> Mean Time Between Failures is estimated based on Telcordia\* methodology and demonstrated through Reliability Demonstration Test (RDT).

<sup>5</sup> Based on 5 volt power supply, see product specification for specific sku information.

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at [www.intel.com/ssd](http://www.intel.com/ssd)

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.

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.

System Configuration for all performance testing: Intel® Core™ i7-3960x on Intel® DX79SI desktop motherboard, BIOS Version 0537 – SIX7910J.86A.0537.2012.0723.1217 8GB DDR3 LSI 9265-8i, FW 3.190.25-1776, Intel® SSD DC S3710 FW G2010110; Intel® SSD DC S3610 FW G2010110 (2.5" SKUs) and G2010120 (1.8" SKUs); Intel® SSD DC S3510 FW G2010130

All documented endurance test results are obtained in compliance with JESD218 Standards. See [www.jedec.org](http://www.jedec.org) for detailed definitions of JESD218 Standards.

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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