

PRODUCT BRIEF

Intel® Solid State Drive E 5100s Series
Embedded (E), SATA (s)

Reliably Built. Optimized for Embedded.



Trust the Intel® SSD E 5100s Series to reliably capture and store valuable IOT data.



The Intel® SSD E 5100s Series is a low power storage device that offers superior durability, lasting integrity, security, and manageability across a variety of solutions, including digital signage, point-of-sale, and digital security/surveillance. Available in capacities as low as 64GB, these SSDs meet high quality and reliability standards to deliver more value for you and your customer.

Lasting Reliability

Your data deserves the highest level of integrity, regardless of where it was captured. Because your embedded and IoT solutions have to work in rigorous conditions, we engineered reliability into the Intel® SSD E 5100s Series so you can focus on your business and your customers. Plus, the E 5100s Series is backed by Intel's five-year limited warranty, three-year extended life cycle, and world class post-sales customer support.



Secure and Manage Data

The E 5100s Series offers built-in security through AES 256-bit self-encryption to help protect embedded applications' data.

Additionally, with Intel® Remote Secure Erase, you can remotely erase the drive to negate any risk of ghost data continuing to live on after the command is executed. This helps ensure that your customers' most sensitive information remains safeguarded.

Intel Expertise Across the Entire Technology Spectrum

The E 5100s is designed to work with the entire Intel platform. With our better-together capabilities, customers benefit from top-level engineering across all ingredients—not just the SSDs. Better-together empowers you to focus on designing the best possible solution for your customers. You can ramp with confidence, reduce complexity, and accelerate time to deployment with a common architecture that streamlines implementation and helps connect things more easily.

Industry Leading Innovation

The E 5100s Series features 64-layer Intel® 3D NAND technology, delivering cost-effective performance to offer maximum scalability. Intel® 3D NAND technology offers increased power efficiency, higher endurance, and superior data integrity when compared with prior generation 2D NAND.

Extended Supply Life

The E 5100s Series offers a robust supply life, helping to reliably minimize unnecessary development costs.

Design-in a Reliable Storage Solution

The Intel SSD E 5100s fits seamlessly into your IOT and embedded solutions, helping to reduce development time, simplify scalability, and minimize unnecessary costs.

FEATURES AT-A-GLANCE ¹	
Model	Intel® Solid State Drive E 5100s Series
Capacity	64GB, 128 GB, 256GB
Form Factor	2.5-inch and M.2 22x80mm
Performance ²	128k Sequential Read/Write up to 550/500 MB/s 4k Random Read/Write ³ up to 75K/85K IOPS
Power	2.5-inch: Active <90mW Typical; Idle <50mW ⁴ M.2: Active <80 mW Typical; Idle <40mW ⁴
Interface	SATA 6Gb/s, compatible with SATA 3Gb/s
Media	Intel® 3D NAND technology, 64-layer, TLC
Life Expectancy	1.6 million hours Mean Time Between Failures (MTBF) ⁵
Warranty	5-year warranty



For more information, visit intel.com/ssd

1. Based on the Intel® SSD E 5100s 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. Tests performed by Intel.
4. Based on 5V power supply on a MoblieMark* 2014 workload with 128k sequential R/W over a 2 hour window. Tests performed by Intel.
5. All documented endurance test results are obtained in compliance with JESD218 Standards. See www.jedec.org for detailed definitions of JESD218 Standards.

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 intel.com.

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.

No license (express or implied, by estoppel or otherwise) to any intellectual property rights is granted by this document. Intel disclaims all express and implied warranties, including without limitation, the implied warranties of merchantability, fitness for a particular purpose, and non-infringement, as well as any warranty arising from course of performance, course of dealing, or usage in trade.

All information provided here is subject to change without notice. Contact your local Intel sales office or your distributor to obtain the latest specifications and before placing your product order. 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.

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.

Intel and the Intel logo are trademarks of Intel Corporation in the U.S. and/or other countries. *Other names and brands may be claimed as the property of others.