

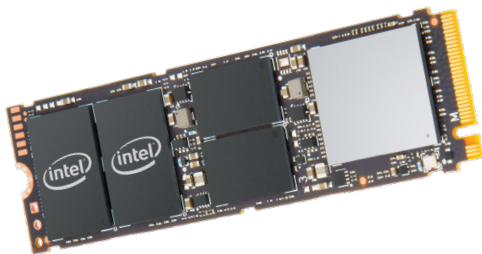
PRODUCT BRIEF

Intel® Solid State Drive Pro 7600p Series
Professional/Business, PCIe* (p), 3D NAND



Twice the Performance. Half the Power Consumption.

Power-efficient performance with enterprise-ready security features and remote manageability capabilities for business IT.



Intel® SSD Pro
7600p –
great for Small
Business and
Enterprise PC
platforms.



The Intel® SSD Pro 7600p Series delivers power-efficient performance in the M.2 form factor with the PCIe* Gen 3x4, NVMe* interface, and is ideal for corporate IT users.

Designed for a range of devices from desktops to laptops, the Intel SSD Pro 7600p will effortlessly manage demanding client applications and easily handle intense multi-tasking. The SSD Pro 7600p provides a new level of responsiveness with fast application launches and file loading.

Performance that Matters

The SSD Pro 7600p accelerates platform performance with sequential reads of up to 3,230 megabytes, sequential writes of up to 1625 megabytes per second (MB/s), and random read and write input/output operations (IOPS) of up to 340K and 275K, respectively.¹ With the SSD Pro 7600p integrated into the PC system, users will work more efficiently with business-critical applications, with up to 6x better performance than SATA SSDs.²

3D NAND Delivers Capacity

The SSD Pro 7600p is part of the Intel® 3D NAND SSD family of products. Built on Intel® 3D NAND technology, these SSDs transform the economics of storage. The combination of 3D NAND and PCIe enables Intel® SSDs to push the limits of performance and value.

Performance at Lower Power

The SSD Pro 7600p provides extended battery life through low power modes. It reduces idle consumption by >90% compared to a typical hard disk drive, reducing power consumption from watts to milliwatts.³ When coupled with an 8th generation Intel® Core™ processor-based platform, the advanced power mode settings reduce active and idle power consumption by up to 50% versus the prior generation device (SSD Pro 6000p Series).⁴

Enterprise-Ready Security Features

Exclusive to the Intel® SSD Professional Family, Intel® Remote Secure Erase offers advanced data security features and remote manageability capabilities for immediate and effective data sanitation when a PC is to be reused or retired. In addition, the Pro 7600p employs a hardware-based AES 256-bit encryption engine that encrypts and decrypts data without sacrificing performance (as compared to software encryption). To enable policy-based control of the encryption, the Pro 7600p supports TCG's Opal* version 2.0 features.

Quality & Reliability You Can Trust

The SSD Pro 7600p is backed by Intel's five-year limited warranty, including Intel's world-class post sales customer support. The SSD Pro 7600p supports AES 256-bit self-encryption to provide protection of critical data stored on the device.

Product Brief | Intel® Solid State Drive Pro 7600p Series

FEATURES-AT-A-GLANCE¹

Model Name	Intel® Solid State Drive Pro 7600p Series			
Capacity (GB)	128, 256, 512 (all single-sided)			
NAND Flash Memory	64-layer, TLC, Intel® 3D NAND Technology			
Bandwidth	Sequential Read (up to) ⁵	Sequential Write (up to) ⁵	Random Read (up to) ⁵	Random Write (up to) ⁵
	3230 MB/s	1625 MB/s	340K IOPS	275K IOPS
Interface	PCIe* Gen3 x4, NVMe*			
Form Factor, Height and Weight	Form Factor		Height/Weight	
	M.2 (80mm)		Up to 2.38mm / up to 10 grams	
Life Expectancy ⁶	1.6 million hours Mean Time Between Failure (MTBF)			
Power Consumption	Active: 50mW Typical ⁷		Idle: 25mW Typical ⁸	L1.2 Sleep: 3mW Typical ⁹
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			



For more information, visit intel.com/ssd

1. Based on the Intel® SSD Pro 7600p Series Product Specifications. IOMeter Test and System Configurations: Intel® Core™ i7-5960X @ 3.00GHz, ASRock® Deluxe X99 motherboard, NVIDIA® GeForce 2109.18.13.4195, BIOS: AMI® P1.90, Chipset: Intel® INF 10.0.20.0, Memory: 16GB (4X4GB) Corsair® DDR4-2400, Microsoft® Windows 10 Enterprise 64-bit using native NVMe storage driver.
2. Performance comparison. Intel® SSD Pro 7600p up to 6x performance versus the Intel® SSD 545s. IOMeter Test and System Configurations: Intel® Core™ i7-4790X @ 3.60GHz, Memory: 8GB (2x4GB) Kingston DDR3-1555; Chipset: Intel® INF 10.0.16.0. Testing by Intel.
3. Power measured during idle on system with PCIe ASPM and NVMe low power states.
4. Power consumption comparison: MobileMark 2014 V1.5. Drives being compared: Intel® SSD Pro 6000p vs Intel® SSD Pro 7600p. System: Lenovo® Ideapad 720s. Processor: Intel® i7-8550U @4.0 GHz Turbo Frequency, 8T/4C, 8MB cache, 15 W TDP. OS: Windows 10 Pro (x64). Drive is configured as primary drive plugged into M.2 slot through a adaptor card and power measured and collected using Agilent 6705B while running MobileMark 2014 V1.5
5. Performance varies by capacity and is measured by Intel using IOMeter*.
6. All documented endurance test results are obtained in compliance with JESD218 Standards. See www.jedec.org for detailed definitions of JESD218 Standards.
7. Active power measured during execution of MobileMark® 2014 with PCIe ASPM and NVMe low power states.
8. Power measured during idle on system with PCIe ASPM and NVMe low power states.
9. Power consumption during PCIe L1.2 link state with NVMe PS4 for lowest power consumption.

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.

Benchmark results were obtained prior to implementation of recent software patches and firmware updates intended to address exploits referred to as "Spectre" and "Meltdown". Implementation of these updates may make these results inapplicable to your device or system. For more information go to www.intel.com/benchmarks.

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products.

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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