Performance for Today’s PCs

Intel Inside. Performance that Matters Outside.
Experience a better PC with an Intel® 3D NAND SSD and the fast PCIe* interface.

**PCIe* for the Mainstream**
The Intel® Solid State Drive 600p Series is designed for the M.2 form factor with the PCIe* Gen3 x4, NVMe* interface.

Designed for a range of devices from desktops to laptops, the Intel® SSD 600p Series will effortlessly manage demanding consumer client applications and easily handle intense multi-tasking. The SSD 600p Series will take PCs to a new level of responsiveness with fast application launches and file loading.

**Intel® 3D NAND SSDs**
The 600p Series is part of the Intel® 3D NAND SSD family of products. Built on breakthrough 3D NAND and delivered by a proven and trusted supplier, Intel® 3D NAND 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 that Matters**
The 600p Series accelerates platform performance with sequential reads of up to 1,800 megabytes and sequential writes of up to 560 megabytes per second (MB/s) and random read and write input/output operations (IOPS) of up to 155K and 128K, respectively.¹

With the SSD 600p Series integrated in the PC system, users will work more efficiently with the applications they care about, with up to 3x better performance than SATA SSDs.²

**Charge Your Device Less Often**
The 600p Series 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 a 6th generation Intel® Core™ processor-based platform, the advanced power mode settings reduce power consumption by another order of magnitude—from milliwatts to microwatts.

**Quality & Reliability You Can Trust**
The 600p Series is backed by Intel's five year limited warranty, including Intel's world-class post sales customer support.

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**Product Spotlight**
- Intel quality and reliability
- Performance that matters
- Single-sided capacities up to 1TB
- M.2 (80 mm) form factor
- Low power consumption
- AES 256-bit self-encryption
- Backed by Intel’s five year warranty

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¹ Performance results may vary depending on system configuration.
² Performance results may vary depending on system configuration.
³ Performance results are based on testing in specific computer systems at specific conditions. Other factors may impact performance.

Non-Volatile Memory Solutions
### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Intel® Solid State Drive 600p Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (GB)</td>
<td>128, 256, 512, 1024 (all single-sided)</td>
</tr>
<tr>
<td>NAND Flash Memory</td>
<td>3D Tri-Level Cell (TLC)</td>
</tr>
<tr>
<td>Bandwidth</td>
<td></td>
</tr>
<tr>
<td>Sequential Read</td>
<td>(up to) 1800 MB/s</td>
</tr>
<tr>
<td>Sequential Write</td>
<td>(up to) 560 MB/s</td>
</tr>
<tr>
<td>Random Read</td>
<td>155K IOPS</td>
</tr>
<tr>
<td>Random Write</td>
<td>128K IOPS</td>
</tr>
<tr>
<td>Interface</td>
<td>PCIe® Gen3 x4, NVMe®</td>
</tr>
<tr>
<td>Form Factor, Height and Weight</td>
<td>M.2 (80mm) Up to 1.5mm / up to 40 grams</td>
</tr>
<tr>
<td>Life Expectancy*</td>
<td>1.6 million hours Mean Time Between Failure (MTBF)</td>
</tr>
<tr>
<td>Power Consumption</td>
<td></td>
</tr>
<tr>
<td>Active</td>
<td>100mW Typical³</td>
</tr>
<tr>
<td>Idle</td>
<td>40 mW Typical³</td>
</tr>
<tr>
<td>L1.2 Sleep</td>
<td>5mW Typical⁸</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C to 70°C</td>
</tr>
<tr>
<td>RoHS Compliance</td>
<td>Meets the requirements of European Union (EU) RoHS Compliance Directives</td>
</tr>
<tr>
<td>Software Tools</td>
<td>Intel® Solid State Drive Toolbox with Intel® SSD Optimizer at <a href="http://www.intel.com/go/ssdtoolbox%E2%81%B9">www.intel.com/go/ssdtoolbox⁹</a></td>
</tr>
</tbody>
</table>

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1. Based on the Intel® SSD 600p Series Product Specifications: Contact your local Intel sales office or your distributor to obtain the latest specifications.
2. Performance Tests: Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as IOMeter, are measured using specific computer systems, components, software, and instructions. 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.
4. Power measured during Windows Idle on system with PCIe ASPM and NVMe low power states.
6. All documented endurance test results are obtained in compliance with JEDEC Standards. See www.jedec.org for detailed definitions of JEDEC Standards.
7. Active power measured during execution of MobileMark 2014 with PCIe ASPM and NVMe low power states.
8. 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.

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* Other names and brands may be claimed as the property of others.