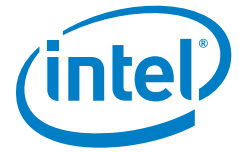


# PRODUCT BRIEF

Intel® Solid State Drive 730 Series



## Data Center DNA

### Performance Unleashed

Factory overclocked 3<sup>rd</sup> generation Intel controller infused with DNA stolen from the Intel SSD Data Center Family.



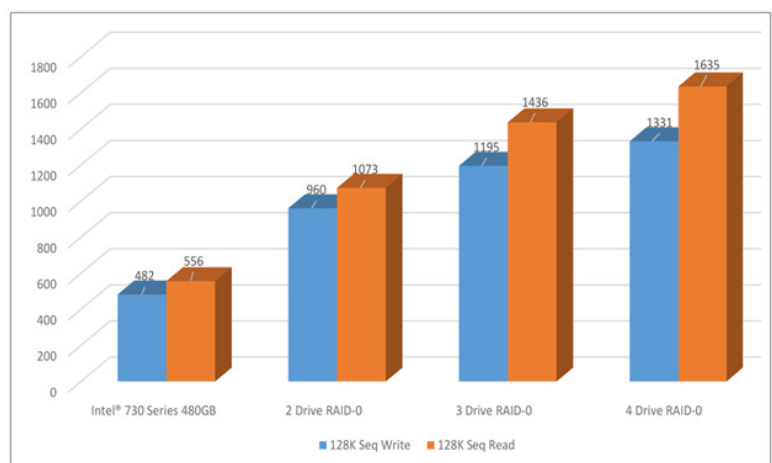
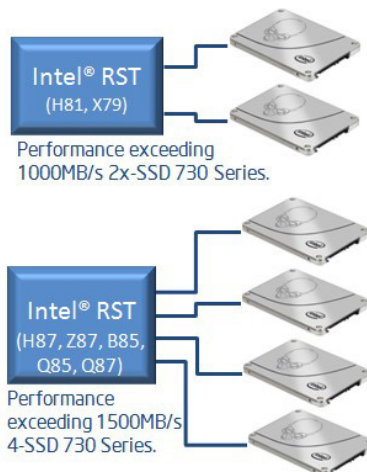
#### Optimized for Performance

Maximize your computing experience with the Intel® Solid State Drive (Intel® SSD) 730 Series, built with a specially qualified 3<sup>rd</sup> generation Intel controller, 20nm NAND and optimized firmware.

Intel has taken storage a step further by factory overclocking these components to push the limits of performance with a 50% increase in controller speed and 20% increase in NAND bus speed. Intel SSD 730 Series are optimized for the most demanding tasks including digital content creation, video capture/editing, extreme gaming and other client usages where storage performance improves the user's experience and efficiency. Applications will benefit from the 50µs read latency, up to 550MB/s sequential reads and 89,000 IOPs random reads.

#### 730 Series + Intel® Rapid Storage Technology = Amazing Performance

Digital Content Creation experts and PC Enthusiasts know the highest storage performance is achieved with RAID-0 configurations as SSDs saturate the SATA interface. Comparing two Intel SSD 730 Series drives in a RAID-0 array to a single alternative SSD, results in the same capacity and nearly double the performance. As shown below, two Intel SSD 730 Series drives in a RAID-0 configuration can provide throughput numbers exceeding 1000MB/s when coupled with Intel platforms supporting Intel Rapid Storage Technology (Intel® RST). Similarly four Intel SSD 730 Series drives in a RAID-0 array with an Intel® chipset based platform can provide performance exceeding 1500MB/s.



Internal Intel test results with IOMeter 2009. 10/22 on Intel Core i7 4770K, Z87 Chipset, 8GB PC3-10700, RST version 12.8. For more information go to: [www.intel.com/performance](http://www.intel.com/performance)

## Intel Data Center DNA = Extreme Endurance & Performance Consistency

Intel® SSD 730 Series also delivers excellent endurance to support the needs of the most demanding client usages. Support for up to 70GB writes per day for five years (compared to the industry typical 20GB) provides piece of mind for digital content creators and PC enthusiasts who demand dependable up-time from their workstations and gaming rigs. The Intel SSD 730 Series drive also brings greater performance consistency to the client market in both single drive and multiple drive RAID arrays. Intel's advanced firmware algorithms allow Intel to deliver client SSDs with "data center" efficiency and dependability throughout the life of the drive.

## Solid State Drive Computing Starts with Intel Inside®.

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

## Product Spotlight

- Intel® SSD Architecture designed and optimized for leading client storage performance
- Intel Data Center DNA brings performance consistency for all data types and extreme endurance to client storage
- Intel® Rapid Storage Technology plus 730 Series delivers top performance for the most demanding storage workloads

### TECHNICAL SPECIFICATIONS<sup>1</sup>

Model Name	Intel® Solid State Drive 730 Series					
Capacity	2.5-inch: 240GB and 480GB					
NAND Flash Memory	20nm Intel® NAND Flash Memory Multi-Level Cell (MLC) Compute-Quality Components					
<b>Sustained Sequential Reads / Writes</b>						
Bandwidth <sup>2</sup>	<b>Sustained Sequential Reads / Writes</b>			<b>2 Drive RAID-0</b>		
	240GB: up to 550 / 270 MB/s			240GB: up to 1020 / 530 MB/s		
	480GB: up to 550 / 470 MB/s			480GB: up to 1020 / 910 MB/s		
Read /Write Latency	50 µs / 65 µs					
<b>4KB Reads / Writes</b>						
Random I/O Operations per Second <sup>3</sup>	<b>4 KB Reads / Writes</b>			<b>2 Drive RAID-0</b>		
	240GB: up to 86,000 IOPS / 56,000 IOPS			240GB: up to 136,000 IOPS / 111,000 IOPS		
	480GB: up to 89,000 IOPS / 74,000 IOPS			480GB: up to 168,000 IOPS / 145,000 IOPS		
Interface	SATA 6Gb/s, compatible with SATA 3Gb/s and 1.5Gb/s					
Form Factor, Height and Weight	Form Factor: 2.5-inch					
	Height: Up to 7mm					
	Weight: Up to 78 grams					
Life Expectancy	2 million hours Mean Time Between Failures (MTBF)					
Lifetime Endurance	240GB - 50GB Writes per Day			480GB - 70GB Writes per Day		
	Usage					
Power Consumption <sup>4</sup>	12V	240GB	480GB	5V	240GB	480GB
	Active:	3.8W	5.5W		Active:	3.8W 5.0W
	Idle:	1.5W	1.5W		Idle:	1.2W 1.3W
Operating Temperature	0° C to 70° C					
RoHS Compliance	Meets the requirements of European Union (EU) RoHS Compliance Directives					
Product Ordering Information	To order, visit <a href="http://intel.com/ssd">intel.com/ssd</a>					

<sup>1</sup> Based on the Intel® SSD DC 730 Series Product Specification.

<sup>2</sup> Device measured using Iometer with 4K Random Writes QD=32 across 100% span of the drive. Latency measured using write transfer size of 4KB (4,096 bytes) and queue depth set to 1.

<sup>3</sup> Based on JESD218 standard with JESD219 workload based on JESD SSD standard

<sup>4</sup> Based on JEDEC SSD standard JC64.8

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