

INTEL INSIDE POWERHOUSE OUTSIDE



New 7th Gen Intel® Core™ i7 processors deliver everything you need for a revolutionary gaming experience. Whether you want to boost performance, experience the latest in overclocking, or upgrade with room to add on later, you won't be disappointed.

POWERFUL

Built for those who want to experience gaming, VR and 4K content as intended, Intel® Core™ i7 processors offer the latest technologies to deliver your next gamer-grade upgrade.¹

CUSTOMIZABLE

Move to a more customizable setup with unlocked Intel® Core™ i7 processors and gain up to 28% better performance² versus a 3-year-old desktop PC as a result. Thanks to new expanded overclocking³ modifiers, you can dial up your clock speed with unprecedented precision and control.

EXTREME

It's hard to compete with an Intel® Core™ i7 processor Extreme Edition in terms of raw power, speed and expandability. With up to 10 dedicated cores, 20 threads, and plenty of headroom for peripherals, the Intel® Core™ i7 processor Extreme Edition is an elite addition to your arsenal.

Compare Processors:

7th Gen Intel® Core™ i5 & i7 Processors

Processor Number	Cores/Threads	Clock Speed (Base Frequency, GHz)	Max Turbo Frequency (GHz)	Intel® Smart Cache (MB)	Max # PCI Express* 3.0 Lanes	Recommended Chipset	Memory Support/ Capacity
i7-7700K	4/8	4.2	Up to 4.5	8	16	Z270	2 channels DDR4-2400+/ DDR3L-1600
i7-7700	4/8	3.6	Up to 4.2	8	16	H270	2 channels DDR4-2400+/ DDR3L-1600
i5-7600K	4/4	3.8	Up to 4.2	6	16	Z270	2 channels DDR4-2400+/ DDR3L-1600
i5-7600	4/4	3.5	Up to 4.1	6	16	H270	2 channels DDR4-2400+/ DDR3L-1600

6th Gen Intel® Core™ i7 Processors—Unlocked & Extreme Edition

Processor Number	Cores/Threads	Clock Speed (Base Frequency, GHz)	Max Turbo Frequency (GHz)	Intel® Smart Cache (MB)	Max # PCI Express* 3.0 Lanes	Recommended Chipset	Memory Support/ Capacity
i7-6950X	10/20	3.0	Up to 3.5	25	40	X99	4 channels DDR4 2400
i7-6900K	8/16	3.2	Up to 3.7	20	40	X99	4 channels DDR4 2400
i7-6850K	6/12	3.6	Up to 3.8	15	40	X99	4 channels DDR4 2400
i7-6800K	6/12	3.4	Up to 3.6	15	28	X99	4 channels DDR4 2400

K = Unlocked
X = Extreme Edition

*DDR4-2400 support is 1 and 2 DPC for UDIMMs but only 1 DPC for SODIMM

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. For more information, go to www.intel.com/benchmarks.

1 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.

2 Up to 28% better performance vs. 3-year-old desktop PC. As measured by SYSmark® 2014 on Intel® Core™ i7-7700K Processor (Configuration details: Intel® Core™ i7-7700K Processor, PL1=91W TDP, 4C8T, Turbo up to 4.5GHz, Motherboard: Z270, Graphics: NVIDIA® GTX 1080, Memory: 2x4GB LPDDR4-2400, Storage: Intel SSD, OS: Windows® 10 Build 1607) vs. Intel® Core™ i7-4770K Processor (Configuration details: Intel® Core™ i7-4770K Processor, PL1=84W TDP, 4C8T, Turbo up to 3.9GHz, Motherboard: H97, Graphics: NVIDIA® GTX 1080, Memory: 2x4GB, DDR3-1600, Storage: Intel SSD, OS: Windows® 10 Build 1607).

3 Altering clock frequency or voltage may damage or reduce the useful life of the processor and other system components, and may reduce system stability and performance. Product warranties may not apply if the processor is operated beyond its specifications. Check with the manufacturers of system and components for additional details. For more information, visit <http://www.intel.com/content/www/us/en/gaming/overclocking-intel-processors.html>.

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