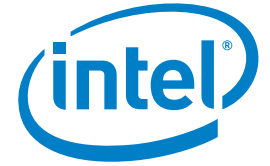


PRODUCT BRIEF

Intel® Core™ i7 and Intel® Core™ i5
Processors with Overclocking Enabled¹



Introducing the Intel® Core™ i7-875K and Intel® Core™ i5-655K Processors



Product Overview

With faster, intelligent, multi-core technology that dynamically applies processing power when it's needed most, the new Intel® Core™ i7-875K and Intel® Core™ i5-655K processors deliver an incredible breakthrough in PC performance. You'll experience maximum performance for everything you do, thanks to the combination of Intel® Turbo Boost Technology² and Intel® Hyper-Threading Technology³, which maximize performance to match your workload.

Shatter Your Performance Limits¹

These new processors offer many advanced features to help you get the most out of your overclocking experience. The

processors' unlocked multipliers allow you to easily increase the core and memory frequencies independently from the rest of the system, improving your ability to reach high core and memory clock speeds that go beyond the processor specifications.

Hit a power wall? With these special processors, you can go beyond those limits. You have the flexibility to increase the current and wattage limits of the processor, allowing it to access more power to meet the demands of running at higher frequencies. Combined with a robust motherboard, high-performance DDR3 memory based on Intel® Extreme Memory Profiles (Intel® XMP), and a rock-solid cooling solution, you've got the ultimate overclocking flexibility and options for the avid performance enthusiast.

Gaming to the Max

Unlocked versions of the Intel® Core™ i7 and Intel® Core™ i5 processors enable an incredible experience for a wide range of games, from casual to intense and immersive titles. If you're a hard-core gamer and love to overclock your system, the unlocked Intel Core i7-875K or Intel® Core™ i7-980X processor is your best choice. By distributing AI, physics, and rendering across 8 or even 12 software threads, these Intel Core i7 processors let you concentrate on taking down the bad guys while your PC handles all the visual details such as texturing and shading that keep you feeling totally immersed. It's a gaming experience so amazing, you just might lose yourself in the action.

Intel® Core™ i7 and Intel® Core™ i5 Processors with Overclocking Enabled¹

For more information, visit
www.intel.com/go/unleashed

Intel® Core™ i7 and Intel® Core™ i5 Processor Comparison

	INTEL® CORE™ i7-980X PROCESSOR EXTREME EDITION	INTEL® CORE™ i7-875K PROCESSOR	INTEL® CORE™ i5-655K PROCESSOR
Number of Simultaneous Threads with Intel® Hyper-Threading Technology ³	12	8	4
Intel® Smart Cache	12 MB	8 MB	4 MB
Processor Frequency	3.33 GHz	2.93 GHz	3.20 GHz
Intel® Turbo Boost Technology ² Frequency	3.60 GHz	3.60 GHz	3.46 GHz
Integrated Memory Controller	Yes	Yes	Yes
Number of DDR3 Memory Channels	3	2	2
Unlocked Core, DDR3, and Power ⁴	Yes	Yes	Yes
Recommended Intel® Express Chipset	X58	P55	P55

Features and Benefits of the Intel® Core™ i7 and Intel® Core™ i5 Processors with Overclocking Enabled¹

Feature	Benefit
Multi-Core Processor	Provides independent execution cores in one processor package. Dedicated processing cores help operating systems and applications deliver additional performance, so users can experience better multitasking and multi-threaded performance across many types of applications and workloads.
Overclocking Enabled ¹	Unlocked core multipliers provide easy overclocking of the processor and memory frequency, enabling performance beyond the processor's original specifications. Unlocked processors deliver the most flexible overclocking experience.
Intel® Turbo Boost Technology ²	Dynamically increases the processor's frequency as needed by taking advantage of thermal and power headroom when operating below specified limits. Get more performance automatically, when you need it the most.
Intel® Hyper-Threading Technology ³	Delivers two processing threads per physical core for massive computational throughput, allowing highly threaded applications to get more work done faster.
Intel® Smart Cache	This large last-level cache enables dynamic and efficient allocation of shared cache to all cores to match the needs of various applications for ultra-efficient data storage and manipulation.
Integrated Memory Controller	An integrated memory controller offers amazing memory performance for data-intensive workloads. Combined with the processor's very efficient prefetching algorithms, this memory controller's lower latency and higher memory bandwidth delivers amazing performance for data-intensive applications.
Intel® HD Boost	Includes the full SSE4 instruction set, significantly improving a broad range of multimedia and compute-intensive applications. The 128-bit SSE instructions are issued at a throughput rate of one per clock cycle, allowing a new level of processing efficiency with SSE4 optimized applications.
AES-NI Encryption / Decryption Acceleration	Provides six new processor instructions that help to improve performance for AES encryption and decryption algorithms. <i>(For the Intel® Core™ i7-980X processor Extreme Edition and the Intel® Core™ i5-655K processor only.)</i>



Achieve maximum performance with a gaming experience so amazing, you just might lose yourself in the action.

¹ Warning: Altering clock frequency and/or voltage may (i) reduce system stability and useful life of the system and processor; (ii) cause the processor and other system components to fail; (iii) cause reductions in system performance; (iv) cause additional heat or other damage; and (v) affect system data integrity. Intel has not tested, and does not warranty, the operation of the processor beyond its specifications.

² Intel® Turbo Boost Technology requires a PC with a processor with Intel Turbo Boost Technology capability. Intel Turbo Boost Technology performance varies depending on hardware, software, and overall system configuration. Check with your PC manufacturer on whether your system delivers Intel Turbo Boost Technology. See www.intel.com/technology/turboboost for more information.

³ Intel® Hyper-Threading Technology requires a computer system with a processor supporting HT Technology and an HT Technology-enabled chipset, BIOS, and operating system. Performance will vary depending on the specific hardware and software you use. For more information including details on which processors support HT Technology, see www.intel.com/info/hyperthreading.

⁴ With unlocked Intel® Core™ processors, users can increase core and memory ratios, as well as the TDP (watts) and current (amps) limits beyond their default tested values.

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