Decode the meaning of Intel processor chip name structure

Let TipsMake.com decode the Intel chip name structure, find out what the characters in the most popular 'Core iX' product names mean.

If you just look at the "X" value (varying from 3, 5, 7 to 9) in the official name 'Core iX to identify Intel's ranking and performance will not be completely correct. In addition to "X", in the name structure of the microprocessor Intel also has additional numbers and other characters to help you know more about the performance and main function of the chip.

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The number behind the 'i' in 'Core iX' indicates the overall overarching performance of the processor.

As follows:

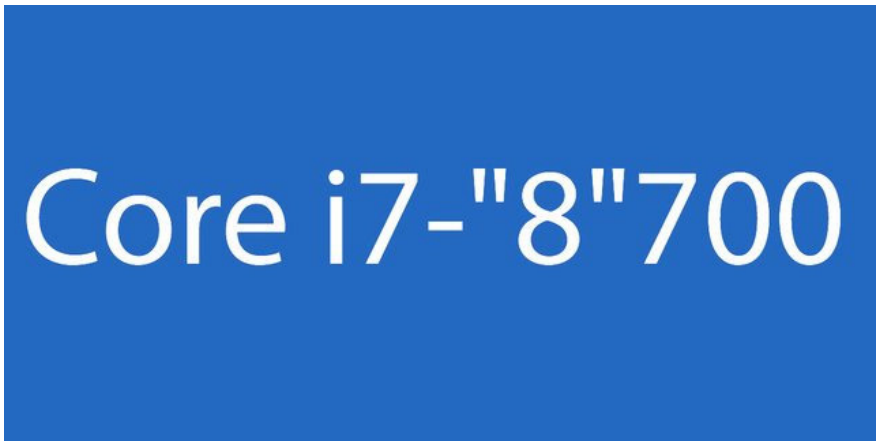
Core 'i3' chip: This is a low-cost, stable processor for computers with limited budgets.

'I5' Core Chip: As a mid-range processor, compared to Core i3, it has significantly better performance and of course the price of this product line is also higher.

Core 'i7' chip: A high-performance, high-performance processor suitable for professional purposes such as high-definition graphics editing and gaming.

'I9' Core Chip: This is the most advanced processor, powerful enough to meet professional tasks such as editing photos and videos, streaming games on online platforms. Of course the price of this product is also quite high.

Thousands of digits in the following 4 numbers represent the generation.



Up to now, there have been 8 Intel Core iX releases and all of the 8th generation processors have their '8' digits. Similarly, microprocessors belonging to other lifetimes also have their names starting with their respective lifetime numbers.

In addition, Intel also names each of its Core iX lifetimes to make it easier for users to remember. For example, the fifth generation Core iX, Haswell, the 6th generation Broadwell, the 7th generation is Sky Lake, the 8th generation is called Coffee Lake .

Three digits behind from hundreds onwards.

These digits represent the performance of microprocessors when compared to the same generation and the same Core iX line. For example, Core i5-8600 will give more processing speed than Core i5-8400.

The most obvious difference lies in the clock rate and the speed of the clock, the speed of processing the chip's tasks is proportional to the increase in clock speed. For example, the Core i5-8600, which has clocked up to 3.1 Ghz, will be stronger than the Core i5-8400 chip clocked at 2.8 GHz.

Needless to say, Core i7 chips will outperform Core i5 despite lower clock speeds, and Core i5 will still "break down" Core i3 even though Core i3 has higher clock speeds.

Meaning the digits behind the number name.

If no letters appear after the code name, it is the basic chip version of Intel.

If there is a letter behind the name of a chip, each letter will provide users with general information about the purpose of use as well as the power of the computer running that chip.

'K' chip: This is the strongest version of a chip line, possessing a higher clock rate than the basic line version and is used for professional working PCs or laptops. In addition, the 'K' chip is an 'unlocked' chip that allows overclocking to achieve higher performance.

'G' chip: This is an Intel chip equipped with powerful graphics processor from rival AMD. With G chip, users will not need to be equipped with expensive discrete graphics cards but still be able to play online games mid-

range configuration with stable frames.

Chip 'T': Series of energy-efficient chips, which are less efficient than basic chips without characters. Therefore, the processor with 'T' is for users who have gentle needs such as typing text, listening to music, watching movies.

'U' chip: This is a processor designed specifically for mobile devices and laptops. These chips are clocked much lower than the full-size siblings, so they have the most modest performance and the least power consumption. This helps the 'U' chip avoid thermal overload problems.

Code name of an 8-core Intel Core i3 U.

The alphabetical suffix table and their specific meaning:

Alphabet suffix Description Example K Unlock (Strongest, unlock all features) Intel® Core ™ i9-9900K F Requires Intel® Core ™ i9-9900KF discrete graphics card Included discrete graphics card in the bag Intel® Core ™ i7-8705G U packaging Ultra-low power consumption Intel® Core ™ i7-8650U H High-performance Intel® Core ™ i3-7100H HK Graphics High-performance graphics, unlocking Intel® Core ™ i7- 7820HK HQ High-performance, quad-core Intel® Core ™ i7-7920HQ Y Graphics Very low power consumption Intel® Core ™ i7-7Y75 T Optimizes power consumption Intel® Core ™ i7-6700T processor M Mobile Intel ® Xeon® E3-1535M C Unlocked desktop processor based on LGA 1150 package with high performance Intel® Core ™ i7-5775C R processor Desktop computer processor based on BGA1364 (mobile) package with High-performance graphics Intel® Core ™ i7-5775R S Optimized for Intel® Performance Co re ™ i7-4770S MQ, MQ Mobile quad core

Intel® Core ™ i7-4702MQ
Intel® Core ™ i7-2860QM

MX Intel® Core ™ i7-4940MX E ultra-portable version Desktop power-saving dual-core processor with larger TDP or by 55 WL High-power mobile processor for mobile devices with TDP 12-19 WP High-power power processor for mobile devices with TDP 20-29W Q Quad-core high-performance processor for QX mobile Quad-core high-performance processor for desktop or mobile
The number of chips.

In theory, the processor will give fast speeds if there are many cores. But this is not true for the 8th generation of Intel chips because low-end Core i3 models even own 4 cores. However, the performance of dual-core

processors with only two cores will be significantly slower.

Hopefully with the above content, you have been able to decipher some of the basic information about Intel's chip line being explored through its name.

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