

# Which CPU to choose to meet both price and performance requirements?

In this article TipsMake.com will tell you the CPU line can meet the needs of price and performance according to each segment for you to choose.

Sure, you only need to spend a lot of money to buy the best CPU in the market, but spending a few to tens of millions is not the only way to get the CPU that suits your needs.

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Choose a brand new motherboard and spend about 7 million VND, you already have a full-featured processor for your computer. It will fully support entertainment features like gaming and a variety of other specialized applications. But you can save a lot of money for other things and still make the most of the CPU when you learn about new CPUs today. After going through a series of CPU reviews, TipsMake.com will suggest to you some CPU lines according to 2 price and performance criteria for you to consider before assembling your own computer or buying new ones. .

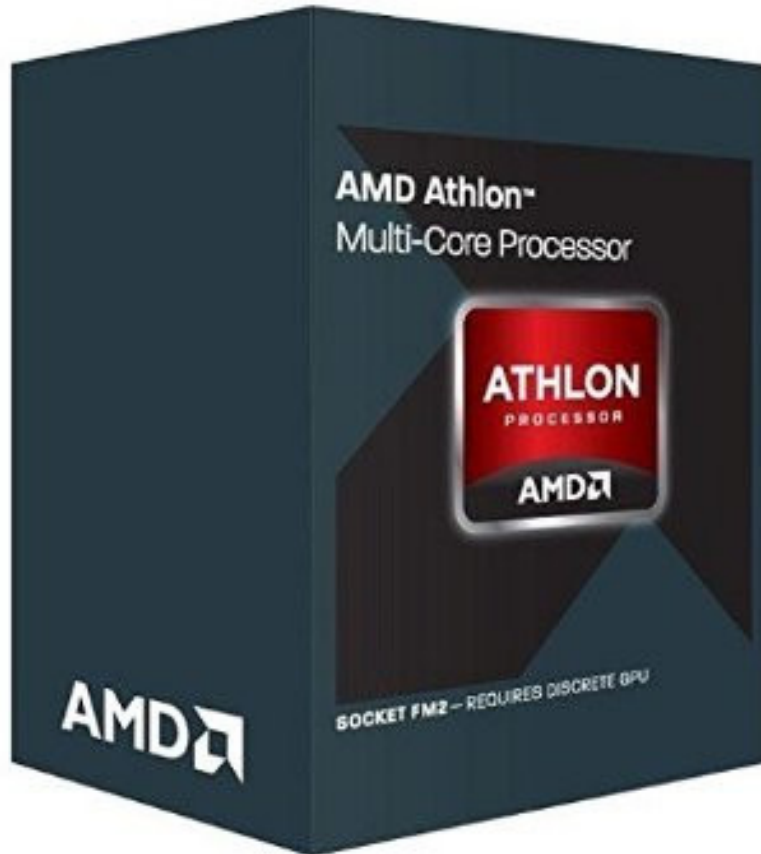
## **Please refer to more:**

1. 9 elements to pay attention to when buying a laptop
2. Which company CPU should I choose: Intel or AMD?

## **Choose low-cost CPU:**

### **AMD Athlon X4 860K**

This 4-core CPU is not the most powerful processor on the market, regardless of aspect, but it only costs \$ 65 (about 1.5 million VND). AMD includes overclocking, radiator fans (a great benefit at this price) and excellent performance compared to other CPUs at this price. Many people commented that this CPU fan is thin and weak, but in fact it is quite high speed, thick and strong enough to cool the CPU in a closed box or game room. If you are not assured you can install a radiator fan, this will also help the CPU to be more durable and work better.



While multi-core processors are quite powerful, the chip makes users a bit disappointed because of the power consumed on each core and the efficiency when compared to Intel's products. However, for a price of \$ 65, this can be easily overlooked and focus on being a CPU capable of handling games and multitasking. As long as you do not have to work with intensive applications like graphics and techniques.

1. **Strengths:** Play games, can overclock
2. **Weaknesses:** TDP (the amount of heat generated processor chips that the system needs to release, is equivalent to the power consumption of the chip) higher than Intel's products.

### **Intel Pentium Processor G4400**

If you are not a fan of overclocking multiple cores, Intel has a strong recommendation for the CPU, which is the G4400. It is locked and has 2 cores without hyper-threading, but you can buy this CPU for computers that need to handle light to moderate tasks, including playing some games.



The AMD option above will perform better with multicore support (especially when overclocking), but the G4400 has a few tricks to overcome this weakness, including GPU integration. In terms of price, this CPU of Intel is not much different from the above option, it falls into about \$ 62.22 (over 1.4 million VND).

1. **Strengths:** Great single core performance at a cheap price
2. **Weaknesses:** The GPU is poorly integrated, without overclocking

## Mid-range CPU

### AMD FX-8300

You have 4 modules and 8 cores for only \$ 104.95 (about 2.4 million VND). Only \$ 40 more than the above 2 chips and you have a completely different CPU. Like other AMD processors, the AMD FX-8300 is not designed for single core performance.

Applications can be handled smoothly by taking advantage of multi-core processors. Especially this processor can overclock. This makes it comparable to Intel's Core i3 chip.



1. **Strengths:** Play games and implement moderately intensive applications with high performance thanks to 8 processing cores.
2. **Weakness:** Excessive heat when overclocked.

## Intel Core i3-6100

The mid-range CPU selected in the Intel family is the Intel Core i3-6100, which is a locked chip. Intel Core i3-6100 beats the FX-8300 when processing single-core but lags far behind multi-core processing and overclocking. It is also more expensive than the FX-8300, about VND 2.67 million.



If you don't play games too often and use advanced computer applications, Core i3-6100 is more than enough. In terms of price, it is more expensive than its competitors due to being in the latest Skylake line today.

1. **Strengths:** Play games and use them for efficient computer assembly
2. **Weakness:** Fully locked

## High performance CPU

### AMD Ryzen 7 1700

AMD has just announced a new line of Ryzen processors and 3 CPU launches for pre-ordered customers. Ryzen 7 1700, 1700X and 1800X are the latest AMD items in this segment to compete with high-end items from rival Intel. 1700 targets Intel Core i7-7700K with 8 cores, 16 threads, and TDP only 65W. This is the lowest power consumption of desktop CPUs, which is the best achievement this CPU has achieved. AMD Ryzen 7 1700 price is about 7.5 million VND.



1. **Good for:** Playing games and doing intensive tasks
2. **Not good for:** High prices and not suitable for people who want to assemble computers themselves

### **Intel Core i7-7700K**

Intel's Core i7 series is built on Kaby Lake architecture, providing excellent performance for terrible games. Adding a suitable GPU, you won't be bored with any game. Even better, this CPU has overclocking capability, which means it can handle many advanced software and multitasking easily.

This may be considered the top CPU in the best CPUs, but you should only be mindful of this CPU line when really needing a high performance in work or entertainment, because the price of this CPU falls around 8 million VND.



1. **Good for:** Play terrible games and perform intensive tasks that require high performance
2. **Not good for:** People with low budget levels

In short, the most important thing is that you have to know what your real needs are when using a computer, so that you can make the right decisions about the type of CPU you need.

Hope this article can help you in the selection process. Wish you find the CPU you like!

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