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How to check if my motherboard is compatible with a processor

I know it's painful to check the compatibility of PC parts and build your own PC, especially when you don't know the compatibility of the products. So looking at all these things, today we're sharing an exclusive post on checking the compatibility of PC Parts even before buying them. This guide will help you to efficiently choose the best and compatible products for building your PC, and it will also help you to invest your hard-earned money on compatible parts rather than losing on incompatible or parts with bottleneck issues. So let's get started... Steps to Build Your Custom PC You're still reading this post, then probably you're looking to build your PC by yourself but due to a lack of knowledge in computer compatibility, but now you need not to be in fear of losing your hard-earned money. So the first step in building your PC is selecting the processor and then all other main components. Here I'm listing the components which are essential for building the PC; Processor Motherboard Graphics Card RAM Storage Cooling Fans Power Supply Case But before we proceed to check the compatibility manually, I would like to share a few sites with you. These sites are essential for checking the products' compatibility before buying them and provides you with a full-proof compatibility test by analyzing products on thousands of compatibility algorithms. These websites are; PC Builder: It is one of the best websites out there to check the compatibility of pc parts without actually having them. They claim to have more than hundreds of computer algorithms written for checking the compatibility of PC parts. Build My PC: Came to existence in 2018, Build My PC is another widely used pc builder to check the compatibility of pc parts. They claim to have hundreds of algorithms for checking the compatibility of pc parts. PCPartPicker: One of the oldest websites in the market for checking the compatibility of pc parts. They're in the market since 2007, and they've one of the most advanced systems to check the compatibility of PC parts available on various merchants. Here you can find some tools which can be used for checking the compatibility and buying the customized PC. If you want, you can use these websites to check the compatibility of PC parts before actually buying them - but we can't be 100% sure about these tools. Here I'm writing how you can manually check the compatibility of the parts (also cross-check these compatibilities, if you're using the tools I shared above). Processor As you know, the processor is the brain of the computer. So first, we have to choose the brain. While choosing the processor, we got two main-streamed lines, AMD and Intel. But what's the difference between them? Both of them are indeed good players in the market with top-notch performance, but the main difference between both of them are backward compatibility and price. Intel processors aren't backward compatible as the AMD. It changes generation and compatibility with every generation update, where's when we talk about the AMD, they're backward compatible and are compatible with predecessor motherboard. Motherboard Once you select the processor, the next thing you've to look at is the motherboard. It is another most important component, and while selecting the motherboard, the first thing you should have to do is, match their socket type with the processor. We're doing this because a motherboard with AM4 socket type is only compatible with the processor having AM4 socket type. Next to it, you've to check the chipset supported by your processor with the motherboard. As I told you above, in AMD, they're backward compatible, so they can work with old generation AM4 motherboard too, but when we talk about the Intel, they're not backward compatible. So, in this case, you've to check the chipset supported by your processor and look out at the motherboard, which supports the same chipset. Graphics Card Now we've to choose the graphics card. It is also known as the video card. A Graphics card is another most important core component for building a powerful PC. They also use to render the video and output them on your monitor. While selecting the graphics card, you don't have to match the socket type or chipset like we do in the motherboard - but we have to look at the PCIe interface. PCIe interface are backward compatible, so a graphics card with PCIe 3.0 works well with PCIe 2.0 port in motherboard - but look for the motherboard, which supports the latest PCIe interface for optimal performance. RAM Most of the people get confused while choosing RAM because of the speed and capacity issue. When I first built a computer for myself, even I find it difficult to build a PC due to a speed issue in RAM. But don't worry! Speed in RAM simply means the speed it can go up to. A DDR4 based RAM has a stock speed of 2133 MHz and anything above it simply means it can be overclocked. And when it comes to the capacity, I highly recommend you to grab anything above 16GB and if you wanted to do hardcore gaming, then I suggest you to grab minimum 32GB of RAM. Storage Storage is a core component of your system. It is used to store the operating system and all the other application data in your system and it helps in booting the system. It comes in different types and sizes, including Mechanical Drive, SATA SSD, NVMe M.2 but they all are compatible with each other. SSDs are much faster than mechanical hard drives. So grab the best storage unit accordingly for optimal performance. Cooling Fans Cooling fans are another top-most core component that you have to grab for your PC. It prevents the processor from overheating the system. And when it comes to compatibility, they come in two different types, Liquid Cooler and Air Cooler. As the name, a Liquid cooler uses water to cool down your processor from overheating whereas an air cooler uses air to cool it down. This is why liquid coolers are much more efficient than normal coolers but with great pros, there are great cons of using liquid cooler, it can be dangerous for your system if water leaks into hardware. Power Supply It is another top-most required component in PCs. The power supply is used to provide the power wattage required by every component to work perfectly. If anyhow you got a power supply with under wattage, the chances are, your system will not even boot up properly. Along with it, you should have to look at the size of the power supply you're getting to buy. Mostly the power supply comes in standard ATX packages, which is fine - but I still recommend you to once check the form factor of your power supply. Case Last but not least component is the case or also know as chassis. It is one of the most important core components which is used to place all other components. Depending upon the Motherboard, you'll get majorly four types of case, and these are; Mini ITX (for ITX Motherboard), Mini Tower (for Micro ATX Motherboard), Mid Tower (for ATX Motherboard), and Full Tower (for EATX Motherboard). Another thing which you need to make sure of is, some motherboards with EATX sizes can also fit in the Mid Tower case. So keeping all these factors in mind, you have to buy an efficient case for your motherboard and all other devices which can easily fit in your case. Wrapping Up! In this guide, I tried my best to explain everything related to the compatibility of the product. You can follow this guide to assure the compatibility of the PC product you're going to buy. Along with it, I highly recommend using the tools I shared above for cross-checking the compatibility of the PC parts. Happy Building :)

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