

I'm not a robot

































and the more robust the delivery system, the better. Whether you're planning on buying a premium gaming motherboard or are looking to snag a good price on a clean-looking, business-branded model, you should always purchase a product that has an intricate VRM. The more chokes, MOSFETs, and transistors, the better the performance and reliability. All in all, it all boils down to personal preference when it comes to motherboard sizes. If you're working with limited space in your home or at the office, then a small form-factor PCB is a great choice. A mini-ITX board can still rock a potent CPU-GPU combo, allowing you to run demanding software with a compact build. While it's easy to source components for a compact system, the building process is kind of a drag and inexperienced PC builders will struggle to get good cable management, resulting in bad airflow and high temperatures during bigger workloads. Fan size is also limited, so this type of system will be louder. If you're not constricted by space, then we think that an ATX board is the way to go. The more time you'll get to better layout, better cooling, and you'll always get more features. You can use more expansion slots to further customize your build, and you can run powerful hardware at great temperatures. Cooling will never be an issue, with middle-tower and full-tower cases supporting air, liquid, and water-cooled builds. Motherboards are a lot more user-friendly than RAM modules, and they're much easier to swap out. The motherboard is the central component of your PC, and it's the one that will have the most significant impact on the efficiency and potential of your PC. Whether you're assembling a new build or considering an upgrade, understanding the various types of computer motherboard sizes and formats available to you can make an informed decision for your next project. Exploring Different Types of Motherboards The size of a motherboard corresponds to its type so we here to talk you through some of the most common numbers that pop up. PC Motherboard Sizes At a Glance Motherboard Type Standard Size ATX 305mm x 244mm Micro-ATX 244mm x 244mm Mini-ITX 170mm x 170mm Note: The size for E-ATX motherboards can vary, as there is no strict industry standard for this form factor. The size given above is a common dimension, but it's always best to check the specifics for a particular E-ATX motherboard model. ATX Motherboards: Design and Size: ATX motherboards measure 305mm x 244mm, providing a spacious platform for building high-performance systems. This size allows for better layout, airflow and cooling solutions. Expansion Capabilities: They typically come with 4-7 PCIe slots this means plenty of room for multiple GPUs, sound cards, network cards and other PCIe devices. ATX PC motherboards are ideal for users who need extensive expandability for gaming, video editing or server applications. Memory and Storage Options: Most ATX motherboards support four or more RAM slots, enabling dual or quad-channel memory configurations. They also offer numerous SATA and M.2 slots for ample storage options. Connectivity and Features: These motherboards often include a wide range of connectivity options like USB 3.x, FireWire, and eSATA. They also typically feature a variety of headers for fans, LEDs, and other peripherals. Micro-ATX Motherboards: Design and Size: Micro-ATX motherboards measure 244mm x 244mm, offering a compact yet functional design. Expansion Capabilities: They typically offer 2-4 PCIe slots, sufficient for a single GPU setup and a couple of additional cards. This makes them suitable for most gaming and general computing needs. Memory Support: Micro-ATX boards usually support up to four RAM slots, similar to ATX, allowing for decent memory capacity and performance. Affordability: These motherboards are often more affordable than ATX models, making them a popular choice for budget-conscious builders who still want room for system growth. Mini-ITX Motherboards: Ultra-Compact Design: With dimensions of 170mm x 170mm, Mini-ITX motherboards are designed for small form factor cases. They are ideal for compact, space-efficient builds. Limited Expansion: Typically, they have only one PCIe slot, which is usually occupied by a graphics card. This limits expansion but is sufficient for many gaming and media centre setups. Memory and Storage: Most Mini-ITX motherboards have two RAM slots and a limited number of SATA and M.2 slots due to their size constraints. Specialised Uses: They are perfect for building HTPCs, portable gaming rigs, or any system where space is at a premium. Despite their size, many Mini-ITX motherboards come packed with features like Wi-Fi, high-quality audio, and adequate cooling solutions. All motherboard sizes offer unique advantages, catering to different user needs and builds. From the expansive ATX to the compact Mini-ITX, the choice depends on your specific requirements for performance, expansion and form factor. FAQs About Computer Motherboard Sizes How can you tell what size motherboard you have? To determine the size of your motherboard, you can measure its dimensions. Measure the length and width of your motherboard and compare these measurements to standard motherboard sizes (ATX, Micro-ATX, Mini-ITX, etc.). Alternatively, you can look up the model number of your motherboard online, which should provide you with its exact form factor and dimensions. What size motherboard should I get? Your choice of motherboard size should be based on your system requirements, available space, and budget. 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